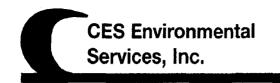
Delte Chem 2703

Delta 2704 Chem 2704



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/9/2008

Dear Tommy Boyette

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2704

Expiration Date 4/9/2010

Generator: Delta Chemical Address: 334 Tidal Road

Deer Park, TX 77536

Waste Information

Name of Waste: Acid rags and debris

TCEQ Waste Code #: 00154891

Container Type:

Detailed Description of Process Generating Waste: Rags, PPE, and debris from drum packaging facility

Color: varies

Odor: mild

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

riggs Road Houston, TX 77021 (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information				
Company:	Delta Chemical Se	rvices			
Address:	334 Tidal Rd				
City, State, Zip:	Deer Park, TX 775	36			
Contact:	Tim Menard		Title:	Safety, I	Health & Environmental
Phone No:	(281) 680-4113/71	3-819-3172 (cell)	Fax No:	281.479.	9842
24/hr Phone:	713.676.1460/713-	819-3172 (cell)			
U.S. EPA I.D. No:	TXR000029199		-		
State I.D.	85855		SIC Code:	5169	
SECTION 2: Billin	g Information – 🔀 S	Same as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:	7	_	
Phone No:	-	Fax No:		~	
_				<u></u>	
SECTION 3: Gene	ral Description of the	e Waste			
Name of Waste: Detailed Description	Acid Rags & n of Process Generat	<u>Debris</u> ing Waste: <u>Rags, PPE, &</u>	Debris from Drur	n Packagin	g facility
Physical State:	☐ Liquid ⊠ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	n	
Color: <u>varies</u>	(Odor: mild			
Specific Gravity (w	ater=1): <u>N/A</u>	Density: N/A lbs/	'gal		
Does this material c	ontain any total phe	nolic compounds? 🔲 Ye	es 🛭 No		
Does this material c	ontain any para subs	stituted phenolic compou	ınds? 🗌 Yes 🛭	⊠ No	
Layers:	Single-phase	☐ Multi-phase			
Container Type:	⊠ Drum	☐ Tote	☐ Truck	П	Other (explain)
Container Size:	55-gal			_	(- - - -
Container Size.	<u>55-gai</u>				
Frequency:	☐ Weekly	Monthly	☐ Quarterly	П	Yearly
- •			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ш	
Number of Units (co		Other:			
Texas State Waste	Code No: $QQ15$	4891			
Proper U.S. DOT S	hipping Name:	Non-RCRA/Non-D	OT Regulated Ma	iterial	
Class: na	UN/N	A: na	PG: na		RQ: ns

Flash Point	pH neutral	Reactive Sulfides 0 mg/l	Reactive Cy Omg/l		olids 2% 100
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Rags, PPE, Debris	97-100	%
Methyacrylic Acid	0-12/2	%
Isopentanoic Acid	0-1%	%
methanol	0-1%	%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

 $\frac{1}{1}$ M

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	v
	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	$\underline{\mathbf{x}}$
Corrosivity:	X
Ignitability:	x

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Lie Valenced	Date: 4-4-08
Printed Name/Title: Tim Menard	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Publication Approved Rejected	
Approval Number: 2704	

<u>SE</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge? YES NO
If'	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Wester Itemia property
	Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.		
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L :: 37.5 mg/L	
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.	
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

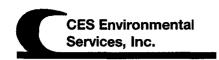
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$\les/dmm + f8c +tmns
2.	Contamination Limits (maximum limit before surcharges apply):
	Mo free liquits
3.	Surcharge Pricing:
	If any free eliquids are present (non-conforming)
	If any free liquids are present (non-conforming) \$50/ drum for stabilization and special
	handling.
4.	Special Testing Requirements:
	Must be no free liquids.
:	
5.	Treatment and Handling Protocol:
	Class I Bulk
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);



Isopentanoic Acid

2-Methybutyric Acid N-Pentanoic Acid Valeric Acid

C₄H₉COOH

Description

A pungent, colorless to water-white liquid.

Physical properties

Molecular Weight	102.13
Relative Evaporation Rate nBuAc=1	0.02
Vapor Pressure at 20°C, mmHg	0.1
Density at 20°C lb/gal	7.82
Specific Gravity at 20/20°C	0.937
Viscosity at 20°C cP	-
Surface Tension	
(dynes/cm at 20°C)	
(dynes/cm at 25°C)	-
Hansen Solubility Parameters, [cal/cm ³] ^{1/2}	-
Total	·
Non-Polar	-
Polar	-
Hydrogen Bonding	-
Boiling Point, °C at 760mm Hg	183.1
Melting Point °C	-44
Solubility at 20°C	
%Wt In Water	3.2
%Wt Water in	·
Closed Cup Flash Point °F	185
SARA 313 (see note 1 _†)	N
Hazardous Air Pollutant (see note 2††)	-

t Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313

Classification/Registry Numbers

CAS Number	109-52-4; 116-53-0
EINECS	203-677-2; 204-15-2

(Please see second page)

^{††} Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

Isopentanoic Acid 2-Methybutyric Acid N-Pentanoic Acid Valeric Acid

Features

- Slightly soluble in water
- Carboxyl functionality in a lower molecular weight fatty acid
- Mixed isomers product

Applications

- Synthetic lubricants
- Chemical intermediate (plasticizers, pharmaceuticals, metallic salts, vinyl stabilizers)
- · Extractant for mercaptans from hydrocarbons

How supplied

- Bulk: Tank truck/tank cars/isotanks
- Drums (40 drum minimum-drummed to order)

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

The Dow Chemical Company Danbury, Connecticut 06817 U.S.A.

In the United States and Canada, Product Information: 1-800-447-4369; Fax: 1-989-832-1465; Technical Support: 1-800-SOLVENT In Europe: +800 3 694 6367; Toll Phone: +32 3 450 2240: Toll Fax: +32 3 450 2815

In the Pacific: +800 7776 7776; Fax: +800 7779 7779

In Other Global Areas: 1-989-832-1556; Fax: 1-989-832-1465

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Published September 2002

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These search terms have been highlighted: 109 52 4 msds

Page 1

Material Safety Data Sheet Valeric acid MSDS

Section 1: Chemical Product and Company Identification

Product Name: Valeric acid

Catalog Codes: SLV1030

CAS#: 109-52-4

RTECS: YV6100000

TSCA: TSCA 8(b) inventory: Valeric acid

CI#: Not available.

Synonym: Pentanoic acid

Contact Information:

Sciencelab.com, Inc. 14025 Smith Rd. Houston, Texas 77396

US Sales: 1-800-901-7247

International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Tel

1-800-424-9300

International CHEMTREC, call: 1-7

Chemical Formula: C5H10O2

For non-emergency assistance, call:

Section 2: Composition and Information on Ingredients

Composition:

 Name
 CAS #
 % b;

 Valeric acid
 109-52-4
 100

Toxicological Data on Ingredients: Valeric acid: ORAL (LD50): Acute: 1844 mg/kg [Rat]. 600 mg/kg [Mouse]. DERM. (LD50): Acute: 660 mg/kg [Rabbit]. 290 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to an highly toxic material may produce general deterioration of health

Page 2

by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and

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non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Combustible.

Auto-Ignition Temperature: 400°C (752°F)

Flash Points: CLOSED CUP: 89.4°C (192.9°F). OPEN CUP: 96°C (204.8°F).

Flammable Limits: LOWER: 2.7%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Page 3

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill:

Combustible material. Corrosive liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.

Section 7: Handling and Storage

Precautions:

Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Unpleasant.

Taste: Not available.

Molecular Weight: 102.13 g/mole

Color: Colorless.

pH (1% soln/water): 3 [Acidic.]

Page 4

Boiling Point: 186.5°C (367.7°F)

Melting Point: -34.5°C (-30.1°F)

Critical Temperature: Not available.

Specific Gravity: 0.942 (Water = 1)

Vapor Pressure: 0.15 mm of Hg (@ 20°C)

Vapor Density: 3.5 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Partially soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 600 mg/kg [Mouse]. Acute dermal toxicity (LD50): 290 mg/kg [Rabbit].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion.

Hazardous in case of skin contact (irritant), of inhalation.

Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Page 5

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 8: Corrosive liquid.

Identification: : Corrosive liquid, acidic, organic, n.o.s. (Valeric acid) : UN3265 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

Pennsylvania RTK: Valeric acid

Florida: Valeric acid

Massachusetts RTK: Valeric acid

New Jersey: Valeric acid

TSCA 8(b) inventory: Valeric acid

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C

(200°F).

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS E: Corrosive liquid.

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Page 6

Personal Protection:

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Page 1

Material Safety Data Sheet Methacrylic Acid MSDS

Section 1: Chemical Product and Company Identification

Product Name: Methacrylic Acid

Catalog Codes: SLM1918

CAS#: 79-41-4

RTECS: OZ2975000

TSCA: TSCA 8(b) inventory: Methacrylic Acid

CI#: Not available.

Synonym: 2-Methylpropenoic Acid

Contact Information:

Sciencelab.com, Inc. 14025 Smith Rd.

Houston, Texas 77396

US Sales: 1-800-901-7247

International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Tel

1-800-424-9300

International CHEMTREC, call: 1-7

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Chemical Name: Methacrylic Acid

Chemical Formula: C4-H6-O2

For non-emergency assistance, call:

Section 2: Composition and Information on Ingredients

Composition:

Name

CAS#

Methacrylic Acid

79-41-4

Toxicological Data on Ingredients: Methacrylic Acid: ORAL (LD50): Acute: 1250 mg/kg [Mouse]. 1200 mg/kg [Rabbi mg/kg [Rat]. DERMAL (LD50): Acute: 500 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, liver, eyes, eye, lens or cornea.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged

Page 2

exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

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Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Combustible.

Auto-Ignition Temperature: 365°C (689°F)

Flash Points: CLOSED CUP: 77°C (170.6°F).

Flammable Limits: LOWER: 1.6% UPPER: 8.1%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Page 3

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Combustible material. Corrosive liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents, acids.

Storage:

May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package. Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 20 (ppm) from ACGIH (TLV)

United States: TWA: 20 (ppm) from OSHA (PEL)

TUIA . 20 (nnm) from MIOCH CVINI

I WA. 20 (ppiii) IIOIII INIOSII SKIIN

Israel: TWA: 20 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Above room temperature)

Odor: Repulsive. (Strong.)

Taste: Not available.

Page 4

Molecular Weight: 86.09 g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 163°C (325.4°F)

Melting Point: 16°C (60.8°F)

Critical Temperature: Not available.

Specific Gravity: 1.015 (Water = 1)

Vapor Pressure: 0.975 mm of Hg (@ 20°C)

Vapor Density: 2.97 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:

Partially soluble in diethyl ether, acetone. Very slightly soluble in methanol, n-octanol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosive in presence of steel.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Yes.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 1060 mg/kg [Rat]. Acute dermal toxicity (LD50): 500 mg/kg [Rabbit].

Chronic Effects on Humans:

Page 5

CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH. The substance is toxic to lungs, liver, eyes, eye, lens or cornea.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 8: Corrosive liquid.

Identification: : Methacrylic Acid, Inhibited : UN2531 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:

Methacrylic Acid

Rhode Island RTK hazardous substances: Methacrylic Acid

Pennsylvania RTK: Methacrylic Acid

Florida: Methacrylic Acid Minnesota: Methacrylic Acid New Jersey: Methacrylic Acid

TSCA 8(b) inventory: Methacrylic Acid

TSCA 8(d) H and S data reporting: Methacrylic Acid: March 11, 1994

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

Page 6

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F)

(400 F).

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

CLASS E: Corrosive liquid.

DSCL (EEC): R34- Causes burns.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 2

Reactivity: 1

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 2

Reactivity: 2

Specific hazard:

Protective Equipment:

Gloves. Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 06:06 PM

Last Updated: 10/09/2005 06:06 PM

The information above is believed to be accurate and represents the best information currently available to us. However, very make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, if ScienceLab.com has been advised of the possibility of such damages.



Isopentanoic Acid
2-Methybutyric Acid

2-Methybutyric Acid N-Pentanoic Acid Valeric Acid

C₄H₉COOH

Description

A pungent, colorless to water-white liquid.

Physical properties

Molecular Weight	102.13
Relative Evaporation Rate nBuAc=1	0.02
Vapor Pressure at 20°C, mmHg	0.1
Density at 20°C lb/gal	7.82
Specific Gravity at 20/20°C	0.937
Viscosity at 20°C cP	<u>-</u>
Surface Tension (dynes/cm at 20°C) (dynes/cm at 25°C)	-
Hansen Solubility Parameters, [cal/cm³] ^{1/2} Total	-
Non-Polar	-
Polar Hydrogen Bonding	-
Boiling Point, °C at 760mm Hg	183.1
Melting Point °C	-44
Solubility at 20°C	
%Wt in Water	3.2
%Wt Water in	-
Closed Cup Flash Point °F	185
SARA 313 (see note 1+)	N
Hazardous Air Pollutant (see note 2††)	-

Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III
 Section 313

Classification/Registry Numbers

CAS Number	109-52-4; 116-53-0
EINECS	203-677-2; 204-15-2

(Please see second page)

^{††} Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

Isopentanoic Acid 2-Methybutyric Acid N-Pentanoic Acid Valeric Acid

Features

- Slightly soluble in water
- Carboxyl functionality in a lower molecular weight fatty acid
- · Mixed isomers product

Applications

- Synthetic lubricants
- Chemical intermediate (plasticizers, pharmaceuticals, metallic salts, vinyl stabilizers)
- · Extractant for mercaptans from hydrocarbons

How supplied

- Bulk: Tank truck/tank cars/isotanks
- Drums (40 drum minimum-drummed to order)

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

The Dow Chemical Company Danbury, Connecticut 06817 U.S.A.

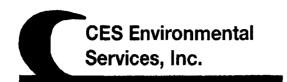
In the United States and Canada, Product Information: 1-800-447-4369; Fax: 1-989-832-1465; Technical Support: 1-800-SOLVENT
In Europe: +800 3 694 6367; Toil Phone: +32 3 450 2240: Toil Fax: +32 3 450 2815
In the Pacific: +800 7776 7776; Fax: +800 7779 7779
In Other Global Areas: 1-989-832-1556; Fax: 1-989-832-1465

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*Trademark of The Dow Chemical Company

Form No.: 327-00021-0405



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/14/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2705

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Bracewell Fireboat

Address: 1604 Clinton Dr.

Galena Park, TX 77029

Waste Information

Name of Waste: oil filters
TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

equipment fluid changes

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Gene	rator Information		- **	t an th	v	
Company: Porto 1	JV-	Port of	Housten	Authorit	1 - Ov	Accwell fixeboat
Address:	1604 Clinton Dr.	1020				
City, State, Zip:	Galena Park, TX 77	1029		Titles	Managan	· · · · · · · · · · · · · · · · · · ·
Contact:	Roxana Herrera 713-670-2814			Title:	Manager 713-670-2	2927
Phone No:				Fax No:	_/13-0/0-2	2021
24/hr Phone:	713-676-1460					
U.S. EPA I.D. No: State I.D.	TCESQG CESQG			SIC Code:	NA	
State I.D.	CESQU			SIC Code.		
	g Information – 🗌 S					
Company:	Port of Houston Author					
Address:	Environ mental Affair		Loop North			
City, State, Zip:	Houston, Texas 77029					
Contact:	RUEAMMA HEN		Title:			
Phone No:	713.6702463		Fax No:	713.670.2427		
SECTION 3: General Description of the Waste Name of Waste: Oil filters Detailed Description of Process Generating Waste: Equipment filter changes						
Detailed Description	I of Frocess Generali	ng waste. Equi	pinent fitter	changes		
Physical State:	Liquid	☐ Sludge		Powder		•
I hysical state.	Solid	Filter Cak		Combination	•	
	⊠ Soliu	Filter Car	<u> </u>	Combination	1	
Color: various	0	dor: oil like				
Specific Gravity (water=1): 1.2 Dens			9 lbs/gal			
Does this material c	ontain any total phen	olic compounds	? 🗌 Yes	⊠ No		
Does this material contain any para substituted phenolic compounds? Yes No						
Layers:	Single-phase	☐ Mult	ti-phase			
Container Type: Container Size:	⊠ Drum <u>55 Gal</u>	Tote		Truck		Other (explain)
Frequency:	☐ Weekly	☐ Monthly	\boxtimes	Quarterly		Yearly
Texas State Waste Code No: NA-Recyclable Material						
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material						
Class: NA	UN/NA	NA NA		PG: NA		RQ: NA

Flash Point	pН	Reactive Sulfides	Reactive Cy	vanides Solids
>200 F	<u>neutral</u>	<u>O</u> mg/l	<u>0</u> mg/l	98%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	<u>0</u> mg/l	0mg/l	<u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Spent Oil Filters	98-100	%
oil	0-2	%
]	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: 3/17/03
Printed Name/Title: <u>Poxana Herrera</u> , <u>Prog. Coord</u>	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Labour Hange	
Date: 3-26-08 Approved Rejected	
Approval Number: Z705	

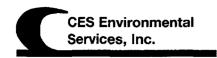
<u>SI</u>	CCTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
닏	Vibratory deburring wastewater
_	Alkaline and acid solutions used to clean metal parts or equipment Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	ii the w	raste contains on and grease at or in excess of 100 mg/L, the waste should be classified in the ons subcategory.
(2)		raste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess ralues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L tum: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

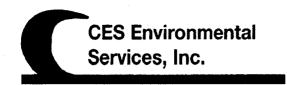


1.	Base Pricing (including freight):
	\$35.00 Drum Transportation \$70.00 hour plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA
,	
5.	Treatment and Handling Protocol:
	NA
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



•	Tests for Product Recovered/Recycled (II applicable):
	NA NA
3.	Management for Product Recovered/Recycled (if applicable);
}.	
3.	Management for Product Recovered/Recycled (if applicable); Recycle Oil Filters
3.	
3.	
3.	

Port of Hawston 2706



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/14/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2706

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Tellepsen Fireboat

Address: 1819 East Barbours Cut

Morgans Point, TX 77571

Waste Information

Name of Waste: oil filters
TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

equipment filter changes

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 GB

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information Company: Port of Houston Authority - Tellepson Fireboot								
Address:	1819 E. Barbours Cut 21Vd.				ceres se	× 11/2	9 d AT	
City, State, Zip:								
Contact:					Title:	Manager		
Phone No: 713-670-2814					Fax No:	713-670-2	2827	
24/hr Phone: 713-676-1460 U.S. EPA I.D. No:					rux 110.	713 070 7		
			···					
State I.D.	CESQG				SIC Code:	010		
State I.D.					S10 00 	9-71		
SECTION 2: Billing	Information	Sama	is A hove					
	Port of Houston A		is Above					
- · · —	Environ mental A		111 East Loop No	orth				
_	Houston, Texas 7		TIT Last Loop Ive	л ш				
			Title:					
•	713.6702463	priers	Fax No		713.670.2427	7		
Phone No:	/13.0/02403		rax No	. –	113.070.242			
SECTION 3: General	al Description of	the Was	<u>te</u>					
Name of Waste: Oil Detailed Description		rating W	aste: <u>Equipment f</u>	ilter c	hanges			
Dl	П т::а		Clarder		Powder			
Physical State:	Liquid		Sludge	ᆜ				
	Solid			Ш	Combination			
Color: various		Odor:						
Specific Gravity (wat	ter=1): <u>1.2</u>		Density: 9 lbs/ga	ıl				
Does this material co	ontain any total p	ohenolic c	ompounds? 🗌 Y	es	⊠ No			
Does this material co	ntain any para s	ubstitute	d phenolic compo	unds?	Yes [⊠ No		
Layers:	Single-pha	ise	☐ Multi-phase	•				
Container Type:	⊠ Drum		Tote		Truck		Other (explain)	
Container Size:			1000		~~~~		(p)	
Container Size:	<u>55 Gal</u>		·					
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly	
	•		·					
Texas State Waste C	ode No:	NA-Rec	clable Material					
Proper U.S. DOT Shi	ipping Name:		Non-RCRA/Non-l	TOC	egulated Mat	terial		
Class: NA	UN	- - - - -	NA		PG: NA	A	RQ: NA	

Flash Point	pН	Reactive Sulfides	Reactive Cyan	ides Solids
>200 F	neutral	0mg/l	<u>O</u> mg/l	<u>98</u> %
Oil&Grease			Copper	Nickel
>1500mg/l >1500mg/l		<u>0</u> mg/l	<u>O</u> mg/l	Qmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Spent Oil Filters	98-100	%	
oil	0-2	%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level ${\bf D}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

omissions of composition properties exist and that all known or suspected hazards have	e been disclosed. I certify that the materials
tested are representative of all materials described by this document.	
Authorized Signature:	Date: 3/17/03
Printed Name/Title: Ruxana Herrera, Prog. Coord.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer Label Land	
Date: 3-76-08 Approved Rejected	
Approval Number: 2706	

2	SECTION 10: Waste Receipt Classification Under 40 CFR 437	
I	Is this material a wastewater or wastewater sludge? YES NO	
I	If 'Yes', complete this section.	
F	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE C	CATEGORY, GO TO THE NEXT PAGE.
<u>Me</u>	Metals Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	or phosphating operations
<u>Oils</u>	Oils Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
<u>Org</u>	Organics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subca							
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.						
	Chrom Copper	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L					
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.					
		Metals Subcategory					
		Oils Subcategory					

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

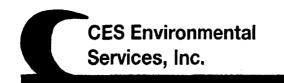


l.	Base Pricing (including freight):
	\$35.00 Drum Transportation \$70.00 hour plus FSC
l	
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA NA
ļ	
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
[NA NA
1	
5.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



/•	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); Recycle Oil Filters
8.	
8.	
8.	
8.	

Port of Houston 2708



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2708

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Turning basin terminal

Address: 7300 Clinton Drive

Houston, TX 77029

Waste Information

Name of Waste: Used antifreeze TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: yellowish/green

Odor: glycol like

pH: 7-10

Physical State:

Incompatibilities: oxidizers, stron acids and bases

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

	U.S.	EPA ID	No: TXD00895	50461	ISW	R No: 3090	0
SECTION 1: Gene	rator Information	1					
Company:			VE Torning t	- AS 12	a Terr	~i~el	
Address:	Upper Level Ro	ad) <u></u>	· , · · · · · · · · · · · · · · · · · ·	777	
City, State, Zip:	Houston, TX 7					·····	
Contact:	Roxana Herrera			Τ	itle:	Manager	
Phone No:	713-670-2814				ax No:	713-670-2	2427
24/hr Phone:	713-676-1460						
U.S. EPA I.D. No:						^ ^	
State I.D.	CESQG			s	IC Code:	NA	
SECTION 2: Billin	g Information –		s Above			<u> </u>	
Company:	Port of Houston A	uthority					
Address:	Environ mental A		111 East Loop No	rth			
City, State, Zip:	Houston, Texas 7	7029					
Contact:	REEANNA !	erreva	Title:				
Phone No:	713.6702463		Fax No:	: _7	13.670.242	27	
SECTION 3: Gene Name of Waste: Us Detailed Description	ed Antifreeze			hid ch	ánges	<i>/</i>	
Detaned Description	ii of Frocess Gene	raung wa	iste. Equipment II	iuiu cii	anges		
Physical State:	□ Liquid □ Solid		Sludge Filter Cake		Powder Combinati	on	
Color: Yellowish/gr	<u>een</u>	Odor: g	glycol like				
Specific Gravity (w	ater=1): <u>.80-1.0</u>		Density: 8 lbs/ga	ıl			
Does this material c	ontain any total p	henolic c	ompounds? 🗌 Y	es 🛭	⊠ No	_	
Does this material c	ontain any para s	ubstitute	d phenolic compor	unds?	☐ Yes	⊠ No	
Layers:	Single-pha	se	☐ Multi-phase	;			
Container Type: Container Size:	∑ Drum <u>55 Ga</u>		Tote		Truck		Other (explain)
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly
Texas State Waste	Code No:	NA-Recy	clable Material		•		
Proper U.S. DOT S	hipping Name:		Non-RCRA/Non-I	DOT re	egulated Ma	aterial	
Class: NA	UN	/NA: -	NA		PG: N	ΙA	RQ: NA

Flash Point	рH	Reactive Sulfides	Reactive Cya	nides Solids
>200 F	<u>7-10</u>	<u>0</u> mg/l	<u>O</u> mg/l	2-4%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	X X X X X X
Ignitability:	<u>X</u>

SECTION 9: Generator's Certification

The information contained herein is based on 🔀 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and

Approval Number: 2708 Approved Rejected

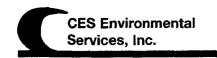
<u>SE</u>	CCTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	this material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils :	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	ir the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		raste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess ralues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

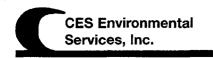
SECTION 11: Additional Instructions

Organics Subcategory

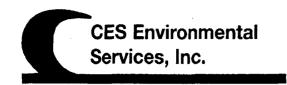
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



T.	base ricing (including freight).
į	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply): NA
	NA .
3.	Surcharge Pricing:
	NA
l	
4.	Special Testing Requirements: NA Test for "To a lucal.
	NA Test for 170 glycol.
5.	Treatment and Handling Protocol:
	Glycol Recycling
Į	
6 .	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
Į	



Port of Houston 2709



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2709

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Farnsworth Fireboat

Address: 809 Lakeside Drive

Channelview, TX 77530

Waste Information

Name of Waste: oily shop towels TCEO Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

rags from general cleaning

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 GB

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener					
Company:	Pera et Ha.	18+en Anthority	FAras Cago	th fi	rebeat
Address:	809 Lakeside Dr.				
City, State, Zip:	Channelview, TX	77530			
Contact:	Roxana Herrera		Title:	Manager	
Phone No:	713-670-2814		Fax No:	713-670-2	2427
24/hr Phone:	713-676-1460		-		
U.S. EPA I.D. No:	1 +CESOG		-		
State I.D.	CESQG		SIC Code:	NA	
Company:	g Information – S Port of Houston Auth	ority		·	
Address:	Environ mental Affai				
City, State, Zip:	Houston, Texas 7702	9			
Contact:	ROXANNA H	errers Title:			
Phone No:	713.6702463	Fax No:	713.670.2427		
Name of Waste: Oil		waste: Rags from Gene	ral cleaning		
			7		•
Physical State:	☐ Liquid	Sludge	_ Powder		
	🛛 Solid	Filter Cake	Combination	1	
Color: various	()dor: <u>oil like</u>			
Specific Gravity (wa	nter=1): <u>1.1</u>	Density: 9 lbs/gal			
Does this material c	ontain any total pher	nolic compounds?	⊠ No		
Does this material c	ontain any para subs	tituted phenolic compound	s? 🗌 Yes 🛛	No	en e
Layers:	⊠ Single-phase	Multi-phase			•
Container Type:	□ Drum	☐ Tote ☐	Truck	П	Other (explain)
• •	_ 		Truck		other (explain)
Container Size:	<u>55 Gal</u>				
Frequency:	☐ Weekly	☐ Monthly ⊠	Quarterly		Yearly
1					•
Texas State Waste C	Code No: CE	SQ4891			
Proper U.S. DOT SI	nipping Name:	Non-RCRA/Non-DO	regulated Mate	rial	
Class: NA	UN/N	A: NA	PG: NA		RQ: NA

Flash Point	рН	Reactive Sulfides	Reactive C	yanides	Solids
>200 F	neutral	<u>0</u> mg/l	<u>0</u> mg/l		<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/i	>1500mg/l	<u>0</u> mg/l	0mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%
		1

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	<u>X</u>
Ignitability:	$\underline{\mathbf{X}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analattached description is complete and accurate to the best of my knowledge and abitomissions of composition properties exist and that all known or suspected hazards have	lity to determine that no deliberate or willful
tested are representative of all materials described by this document.	
	Date: 3/17/08
Printed Name/Title: Roxana Herrera, Prog. Coord.	• ·

Printed Name/Title: Roxana Herrera, Prog.	vord.
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Approved Rejected Approval Number: 2709	
	2

<u>SE</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>37</u>			
Is	Is this material a wastewater or wastewater sludge? YES NO				
lf	If 'Yes', complete this section.				
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO THE NEXT PAGE.			
<u>Meta</u>	uls Subcategory: Subpart A				
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater				
Oils	Alkaline and acid solutions used to clean metal parts or equipsolutions. Subcategory: Subpart B	pment			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes				
<u>Orga</u>	unics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sou Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	irces			

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

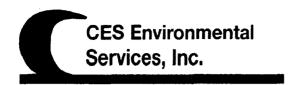


1.	Base Pricing (including freight):
	\$45.00 per drum Transportation \$70.00 hr plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA there cannot be any free floating liquids.
5.	Treatment and Handling Protocol:
	NA
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable): Recycled Rags
8.	
8.	
8.	
8.	

2710 Part of Honday



Waste Pre-Acceptance/Approval Letter

Date 4/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2710

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Farnsworth Fireboat

Address:

809 Lakeside Drive

Channelview, TX 77530

Waste Information

Name of Waste: Oil filters TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

equipment fluid changes

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services. Inc.

pf

CES Environmental Services, Inc.

GB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener			_	_
Company:	Port of Hoz	Stan Authority	- FArmy	north fireboot
Address:	809 Lakeside Dr.	<u> </u>		
City, State, Zip:	Channelview, TX 77530)		
Contact:	Roxana Herrera		Title:	Manager
Phone No:	713-670-2814		Fax No:	713-670-2827
24/hr Phone:	713-676-1460			
U.S. EPA I.D. No:	- CESQG			
State I.D.	CESQG		SIC Code:	NA
SECTION 2: Billing	g Information – Same	as Above		
Company:	Port of Houston Authority			
Address:	Environ mental Affairs	111 East Loop North		
City, State, Zip:	Houston, Texas 77029			
Contact:	ROYANDA Herrus	Title:		
Phone No:	713.6702463	Fax No:	713.670.2427	
	ral Description of the Was	<u>ste</u>		
Name of Waste: Oil Detailed Description	filters of Process Generating W	/aste: Equipment filter	changes	
Physical State:	☐ Liquid ☐ ☐ Solid ☐	Sludge	Powder Combination	1
Color: various	Odor:	oil like		
Specific Gravity (wa	iter=1): <u>1.2</u>	Density: 9 lbs/gal		
Does this material co	ontain any total phenolic	compounds? 🗌 Yes	⊠ No	
Does this material co	ontain any para substitute	ed phenolic compounds	? 🗌 Yes 🛛] No
Layers:	Single-phase	☐ Multi-phase		
Container Type:	⊠ Drum □	Tote	Truck	Other (explain)
Container Type. Container Size:	55 Gal	1016	Truck	
Container Size:	<u>55 Gai</u>			
Frequency:	☐ Weekly ☐	Monthly 🖂	Quarterly	☐ Yearly
A V -	_ , _	•	- "	
Texas State Waste C	Code No: NA-Rec	yclable Material		
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material				
Class: NA	UN/NA:	NA	PG: NA	RQ: NA

Flash Point >200 F	pH neutral	Reactive Sulfides Omg/l	Reactive Cy Omg/l	anides	Solids 98%
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	Omg/l	Omg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Spent Oil Filters	98-100	%
oil	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

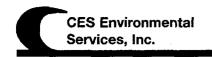
Authorized Signature: Date: 3/17/08
Printed Name/Title: Roxana Herrerz, Program Coordinator
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Lellus Hay
Date: 3-26-08 Approved Rejected
Approval Number: 2710

SEC	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is tl	his material a wastewater or wastewater sludge? YES NO
If"	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metal</u>	's Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils S</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orgai</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L :: 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

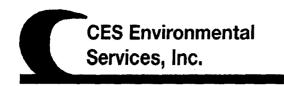


1.	Base Pricing (including freight):
	\$35.00 Drum Transportation \$70.00 hour plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA NA
	NA .
•	Constitution B. Constitution
3 .	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
	NA
-	
6.	Treated Wastewater Discharge Subcategory:
J.	A
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



Tests for Product Recovered/Recycled (if applicable):
NA
Management for Product Recovered/Recycled (if applicable):
Management for Product Recovered/Recycled (if applicable): Recycle Oil Filters

2711 Part of Howstern 2711



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2711

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Farnsworth Fireboat

Address: 809 Lakeside Drive

Channelview, TX 77530

Waste Information

Name of Waste: floor dry

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

clean up of oil spills

Color: white, grey

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 **ISWR No: 30900** GB

SECTION 1. Con	erator Information				
Company:		tirentua notes	- FAIRLE -	must B	a time for a l
Address:	809 Lakeside Dr.	10.00 40.001	- 12442	anth I	CACOEVA
City, State, Zip:	Channelview, TX 775	(30			
Contact:	Roxana Herrera		Title:	Manager	
Phone No:	713-670-2814		Fax No:	713-670-	2827
24/hr Phone:	713-676-1460		1 UZ 110.	713 070	202.
U.S. EPA I.D. No:					
State I.D.	CESQG		SIC Code:	NA	
CECTION 4. Dui					
	ng Information – San				
Company:	Port of Houston Authori				
Address:	Environ mental Affairs	111 East Loop North			
City, State, Zip:	Houston, Texas 77029	TOTAL			
Contact:	Research Brove		510 (50 0 105		
Phone No:	713.6702463	Fax No:	713.670.2427		
SECTION 3: Gen Name of Waste: F	eral Description of the W	/aste			
_		Waste: Clean up of oil sp	<u>oills</u>		
Db	□ т ::a □	7 cua	Domiton		
Physical State:	Liquid [Sludge	Powder		
	⊠ Solid [_ Filter Cake _	Combination	1	
Color: White/Grey	Odo	or: oil like			
Specific Gravity (v	vater=1): <u>1.4</u>	Density: 10 lbs/gal			
Does this material	contain any total phenoli	ic compounds? Yes	⊠ No		
Does this material	contain any para substitu	uted phenolic compounds	? 🗌 Yes 🗵] No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type:	Drum [☐ Tote ☐	Truck		Other (explain)
Container Size:	<u>55 Gal</u>				<u> </u>
Frequency:	☐ Weekly [☐ Monthly ⊠	Quarterly		Yearly
r requency:	Li Weekiy L		Qualterly		1 Carry
Texas State Waste	Code No: CESC	24891			
Proper U.S. DOT S	Shipping Name:	Non-RCRA/Non-DOT	regulated Mate	erial	
Class: NA	UN/NA:	NA	PG: NA	<u> </u>	RO: NA

Flash Point	pН	Reactive Sulfides	Reactive Cy	anides Solids
<u>>200 F</u>	<u>neutral</u>	<u>O</u> mg/l	<u>0</u> mg/l	<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	≥1500mg/I	0mg/l	Omg/I	Omg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Clay Absorbent	80-98	%	
Oil (motor oil, hydraulic oil)	2-20	%	
Misc trash and debris	0-2	%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. <u>Level D</u>

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	<u>X</u>
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	$\underline{\mathbf{X}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: <u>2/17</u> /0 V	
Printed Name/Title: Roxana Herrera, Prog. Coord.	<u> </u>	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer: Abhudday Approved Rejected		
Approval Number: 2711		

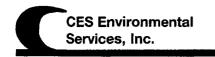
11-1

SE	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
님	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, cabove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

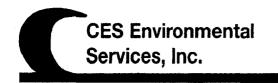


1.	base Fricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA there cannot be any free floating liquids.
	·
5.	Treatment and Handling Protocol:
	Mr class 1 solids
	Class 1 somes
	·
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA

mispart of Housin



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: 7-10

Waste Pre-Acceptance/Approval Letter

Date 4/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2712

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Farnsworth Fireboat

Address: 809 Lakeside Drive

Channelview, TX 77530

Waste Information

Name of Waste: Used antifreeze TCEO Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

equipment fluid changes

Color: yellowish/green Odor: glycol like

Physical State:

Incompatibilities: oxidizers, strong acids, bases

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

OB

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gene	erator Information						
Company:	Port of Houston A	<u>uthority</u>	- FAND WOV	th F	ireboat		
Address:	809 Lakeside Dr.						
City, State, Zip:	Channelview, TX	77530					
Contact:	Roxana Herrera				Title:	Manager	
Phone No:	713-670-2814]	Fax No:	713-670-	2827
24/hr Phone:	713-676-1460						
U.S. EPA I.D. No.		·····			~~~ ~ .	NA	
State I.D.	CESQG			`	SIC Code:	1071	
SECTION 2. Dilli	ng Information – 🔲 S	Sama an	Abovo				
Company:	Port of Houston Auth		Above				
Address:	Environ mental Affa		11 East Loop No	rth		*,	
City, State, Zip:	Houston, Texas 7702		TI Last Loop Ive	71 111			
Contact:		·v-wy.	Title:				
Phone No:	713.6702463	A AN	Fax No		713.670.2427		
1 1101	7.20.07.02.700						
SECTION 3: Gene	eral Description of the	e Waste					
Name of Waste: <u>U</u>	sed Antifreeze on of Process Generat	ing Was	ate: Equipment f	luid cł	nanges		
Detailed Deservation	of kilocoss Conciue	.	<u> </u>	<u> </u>			
Physical State:	∠ Liquid	\square s	ludge		Powder		
·	☐ Solid		ilter Cake	$\overline{\Box}$	Combination		
	Solid	<u>.</u> ب	nter cane	ш	Compiliation		
Color: Yellowish/g	reen (Odor: gl	ycol like				
Specific Gravity (w	ater=1): <u>.80-1.0</u>		Density: <u>8</u> lbs/ga	ıl			
					_		
Does this material	contain any total phe	nolic co	mpounds? 📙 Y	es	⊠ No		
Does this material	contain any para subs	stituted	phenolic compo	unds?	☐ Yes ⊠	No	
Layers:	Single-phase		Multi-phase	;			
	—			_			
Container Type:	⊠ Drum		Tote	Ш	Truck		Other (explain)
Container Size:	<u>55 Gal</u>						•
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly
Texas State Waste	Code No: NA		lable Material				
Proper U.S. DOT S	Shipping Name:	N	Ion-RCRA/Non-I	OOT r	egulated Mater	rial	-
Class: NA	UN/N	A : N	ΙA		PG: NA		RQ: NA

Flash Point	pН	Reactive Sulfides	Reactive Cyan	ides	Solids
>200 F	<u>7-10</u>	Omg/l	<u>0</u> mg/l	IE	<u>2-4</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
Ethylene Glycol	40-60	%	
Water	40-60	%	
Oil	0-5	%	
dirt	0-2	%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, stong acids and bases

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:

Reactivity:

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics,	, listed below, WAS	S NOT PERFORMED bas	sed upon the following
generator knowledge:			

Corrosivity:	\underline{X}
Ignitability:	<u>X</u>
SECTION 9: Genera	tor's Certification
	ined herein is based on 🗵 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and
	s complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composit	tion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

Printed Name/Title: Loxana Herrera, Frog. Coord.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 3-26-08 approved Rejected	
Date: 3-26-08 Approved Rejected	
Approval Number: 2712	

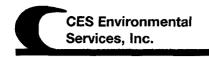
<u>S</u>]	SECTION 10: Waste Receipt Classification Under 40 CFR 437	
Is	Is this material a wastewater or wastewater sludge? YES	☑ NO
If	If 'Yes', complete this section.	
P	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRI	IATE CATEGORY, GO TO THE NEXT PAGE.
Met	<u> Metals Subcategory</u> : Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury	
	Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electrol Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	
<u>Oils</u>	ils Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
<u>Orga</u> —	-	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	3
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed of the values listed below, the waste should be classified in the metals subcategory.		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

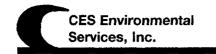
SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

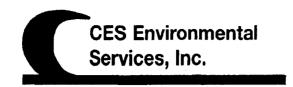


1.	Base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA Test for % glyeol.
	TEST OF 10 FIGERO !
	·
5.	Treatment and Handling Protocol:
٥.	Glycol Recycling
	Glycol Recycling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



	Tests for Product Recovered/Recycled (if applicable):
	Ethylene Glycol
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); Glycol Recycling
8.	
8.	
8.	

X 2 4-01 8-4-01 VX-35



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/14/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2713

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Bracewell Fireboat

Address: 1604 Clinton Dr.

Galena Park, TX 77029

Waste Information

Name of Waste: oily shop towesl TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

rags from general cleaning

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

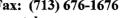
CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

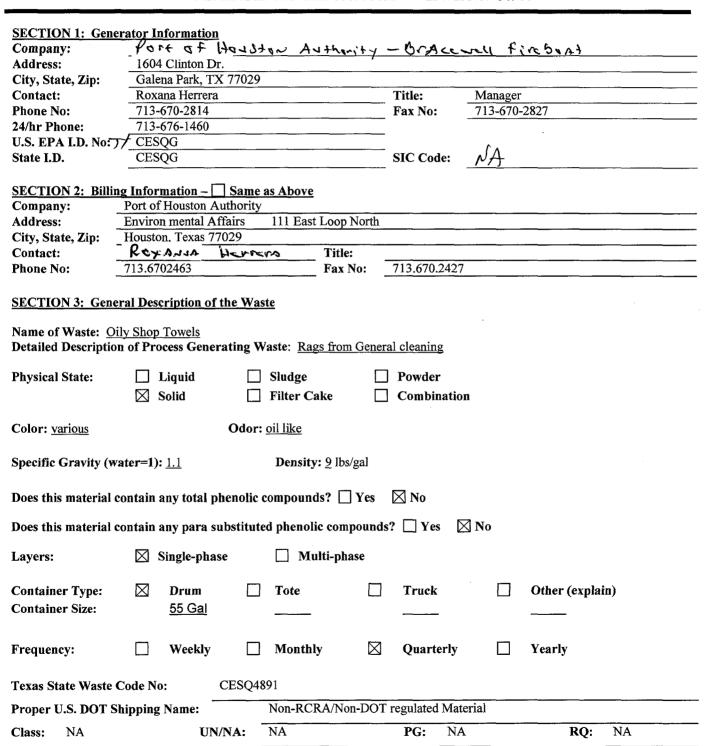
Fax: (713) 676-1676



http://www.cesenvironmental.com TCEO Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900



Flash Point	pН	Reactive Sulfides	Reactive Cya	nides Solids
>200 F	neutral	Omg/l	<u>0</u> mg/l	<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%
		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	<u>X</u>
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🗵 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: 3/17/02
Printed Name/Title: Roxana Herrera, Prog. Coord.	-
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lobbulland	
Date: 3-26-06 (Approved) Rejected	
Approval Number: 2713	

<u>S</u>]	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Met	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
H	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
_	Subcategory: Subpart B
0	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	ii uie w	aste contains on and grease at or in excess of 100 mg/L, the waste should be classified in the ons subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L : 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

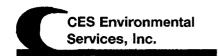
SECTION 11: Additional Instructions

Organics Subcategory

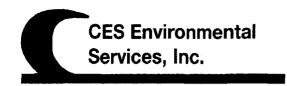
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$45.00 per drum Transportation \$70.00 hr plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA .
3.	Surcharge Pricing:
	NA .
4.	Special Testing Requirements:
	NA Must have no free floating liquids
5.	Treatment and Handling Protocol:
	NA
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
	·
8.	Management for Product Recovered/Recycled (if applicable);
	Recycled Rags
	1.00) 0.00 1.08



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/1/2008

Dear Joel Herger

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2688

Expiration Date 4/4/2010

Generator: Bigler Trading Company

Address: 1500 North South Street

Pasadena, TX 77503

Waste Information

Name of Waste: Alkenes C14-C20 TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste: Unused product from a line flush from a storage tank

Color: clear to yellowish

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900



SECTION 1: Mate	rial Producer Informa	ation					
Company:	Biggler Terminals L	.P					
Address:	1500 North South S	treet					
City, State, Zip:	Pasadena, Texas 77	503					
Contact:	Lewis Brown						Operations Manager
Phone No:	713-740-1637]	Fax No:	713-740-	1621
24/hr Phone:	832-495-8199						
U.S. EPA I.D. No:	Na						
State I.D.	Na				SIC Code:	NA	
SECTION 2: Billin Company: Address:	ng Information - Sa Biggler Terminals LP PO Box 5009	ame as	s Above				
City, State, Zip:	Pasadena, TX 77503						
Contact:	Lewis Brown		Title:			-	
Phone No:	713-740-1637		Fax No:		713-740-1621		
Detailed Description storage tank.	_	ng or I	J			used pro	duct from a line flush from a
Physical State:	☑ Liquid☐ Solid		Sludge Filter Cake	_	Powder Combination		
Color: Clear to yello	owish O	dor: <u>H</u>	<u>Iydrocarbon</u>				
Specific Gravity (w	ater=1): <u>.789</u>	Den	sity: 6.58 lbs/gal				
Does this material c	ontain any total phen	olic co	mpounds? 🗌 Ye	es [⊠ No		
Does this material c	ontain any para subst	ituted	phenolic compou	nds?	☐ Yes 🔯 1	No	
Layers:	Single-phase		☐ Multi-phase				
Container Type: Container Size:	Drum		Tote	\boxtimes	Truck <u>11-1500</u>		Other (explain)
Frequency: Number of Units (co	☐ Weekly ontainers): <u>1</u>		Monthly Other:		Quarterly		Yearly
Proper U.S. DOT S	hipping Name:		Non-DOT Regulate	d Alı	oha Olefin C161	8	
Class: Na	UN/NA	: 1	Va .		PG: Na		RQ: Na

Flash Point	pH	N/A	N/A		Solids		
>200	Na TOC	7:	Connon	Nichal	0%		
Oil&Grease	TOC	Zinc Nome/I	Copper N amg/l	Nickel	л		
<u>Na</u> mg/l	<u>Na</u> mg/l	<u>Na</u> mg/l	N amg/1	<u>Na</u> mg	/1		
SECTION 4: Physics	al and Chemical Da	<u>ıta</u>					
	COMPONENT			Concentratio	ň	Units	
	l / product consists	of the following material	S	Ranges are accep	table	or %	
Alpha Olefin C1618				100		%	
			-				
· · · · · · · · · · · · · · · · · · ·							
				· · · · · · · · · · · · · · · · · · ·		<u> </u>	
SECTION 5: Safety	Deleted Dete						
If the handling of this Level C PPE	s material / product	requires the use of spec	ial protecti	ve equipment, please	explain.		
SECTION 6: Attach	ed Supporting Doc	<u>uments</u>					
List all documents, no M SDS Sheets	otes, data, and/or a	nalysis attached to this fo	rm as part	of the material / prod	luct pro	file.	
SECTION 7: Incomp	<u>patibilities</u>						
Please list all incompa	atibilities (if any):						
SECTION 8: Materi	al Producer's Certi	fication					
The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.							
Authorized Signature	::N	H		Date:			
Printed Name/Title:	No Signature Req	uired					
CES USE ONLY (DO NO		(CE)					
Technical Manager: 2	allan Th	pd					
Date: 4-4-08		roved Rejected					
Approval Number:	2688						



1.	Base Pricing (including freight):
V	No Charge if load takes less than 4.5 hour. After 4.5 hours \$69/hr plus FSC
χ	Billing information for CES will break down for in-house costs
/ ^k	
2.	Contamination Limits (maximum limit hafays guyahaygas apply).
2.	Contamination Limits (maximum limit before surcharges apply): Not compliant with MSDS
3.	
	Water or Solids Based off standard TOC and Solid Rates
4.	Special Testing Requirements:
	Specific Gravity/Flash
5.	Treatment and Handling Protocol:
	Recycle in eith used oil or light ends
	eithe
_	Theodod Westernates Dischause Subactogowy
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



	. Tests for Product Recovered/Recycled (if applicable):	
	See above	
8.		
8.	Light Ends or Used Oil	
8.		12 - 130 · · · · · · · · · · · · · · · · · · ·
8.		
8.		



Oligomers

Material Safety Data Sheet

Approximately
1100 gallows)

1. Chemical product and company identification

Product name

ALPHA OLEFIN C1618

MSDS #

0000000643

Code

0000000643 (NAP).

Product use

Industrial applications

Supplier

INEOS USA LLC

2600 South Shore Blvd. League City, Texas 77573

EMERGENCY SPILL

1 (800) 424-9300

INFORMATION:

Outside the US: +1 703-527-3887 (CHEMTREC)

OTHER PRODUCT INFORMATION

1-866-363-2454 email: OLIGOMERSMSDS@innovene.com

2. Composition/information on ingredients

Ingredient name

CAS#

% by weight

alkenes, c14-20 .alpha.-

68855-60-7

>80

3. Hazards identification

Physical state

Color

Colorless.

Emergency overview

WARNING!

ASPIRATION HAZARD

Harmful or fatal if liquid is aspirated into lungs

MAY CAUSE ADVERSE LUNG EFFECTS IF HIGH CONCENTRATIONS ARE INHALED.

Do not ingest. If ingested do not induce vomiting. Wash thoroughly after handling

Routes of entry

Skin Contact. Ingestion.

Potential health effects

Eyes

No significant health hazards identified.

Skin

Prolonged or repeated contact may dry skin and cause irritation.

Inhalation

Exposure to aerosols or particulates from heated material may cause adverse lung effects if high

concentrations are inhaled.

Ingestion

Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs.

Medical conditions aggravated by over-

None identified

exposure

See toxicological information (section 11)

4. First aid measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical

attention if irritation occurs.

Skin contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical

attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention if symptoms appear.

Ingestion

If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Product ALPHA OLEFIN C1618

name

MSDS#

Aspiration hazard if swallowed- can enter lungs and cause damage. Get medical attention.

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5. Fire-fighting measures

Flammability of the product May be combustible at high temperature.

Flash point 135 °C (Closed cup)

Explosion limits Lower: 0.4 %

Upper: 3.4 %

Products of combustion carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Unusual fire/explosion

hazards

This material is not explosive as defined by established regulatory criteria.

Fire-fighting media and

instructions

In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. Do not use water jet. Cool

containing vessels with flooding quantities of water until well after fire is out.

Protective clothing (fire) Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full

turnout gear.

6. Accidental release measures

Personal precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable

protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures"). Do not touch or walk through

spilled material.

Environmental

precautions and clean-up

methods

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff

entering surface waterways. See Section 13 for Waste Disposal Information.

Personal protection in case of a large spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do

not induce vomiting. Avoid prolonged or repeated contact with skin. Keep container closed. Use with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment

before transferring material. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Avoid all possible

sources of ignition (spark or flame).

8. Exposure controls/personal protection

Occupational exposure

limits

Ingredient name Occupational exposure limits

alkenes, c14-20 .alpha.-

None assigned.

Control Measures Provide exhaust v

Provide exhaust ventilation or other engineering controls to keep the relevant airborne

concentrations below their respective occupational exposure limits.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period.

Personal protection

Eyes Safety glasses with side shields.

Skin and body Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated

contact is likely

Respiratory

Use with adequate ventilation. If ventilation is inadequate, use certified respirator that will protect

against organic vapor.

Hands Wear protective gloves if prolonged or repeated contact is likely.

Consult your supervisor or S.O.P. for special handling directions

Consult local authorities for acceptable exposure limits.

Product ALPHA OLEFIN C1618

name

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9. Physical and chemical properties

Physical state

Liquid.

Odor

Hydrocarbon.

Color

Colorless.

Heat of combustion

Not available.

Boiling point / Range

285 to 316 °C

Pour Point

-2 to 0°C

Specific gravity

0.789

Density

787 kg/m³ (0.787 g/cm³)

Vapor Density (Air = 1)

8.2

Solubility

Insoluble in cold water.

Viscosity

Kinematic: <4 mm²/s (<4 cSt)

10. Stability and reactivity

Stability and reactivity

The product is stable.

Conditions to avoid

Keep away from heat, sparks and flame.

Incompatibility with various

substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Hazardous polymerization

Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic

effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology

Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory

criteria as a mutagen.

Reproductive

effects

No component of this product at levels greater than 0.1% is classified by established regulatory

criteria as a reproductive toxin.

Teratogenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory

criteria as teratogenic or embryotoxic.

Other information

Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Mobility

This product is not likely to volatize rapidly into the air because of its low vapor pressure. This product is not likely to move rapidly with surface or groundwater flows because of its low water

solubility.

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13. Disposal considerations

Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Remarks

Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken

against these hazards.

Consult your local or regional authorities.

14. Transport information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

15. Regulatory information

U.S. Federal regulations

US INVENTORY (TSCA): Listed on inventory.

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ALPHA OLEFIN

C1618: Immediate (Acute) Health Hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not

regulated under CERCLA Sections 103 and 107.

State regulations

No products were found.

California Prop 65: No products were found

Inventories

AUSTRALIAN INVENTORY (AICS): Listed on inventory.

CANADA INVENTORY (DSL): In compliance CHINA INVENTORY (IECS): Listed on inventory. EC INVENTORY (EINECS): Listed on inventory. JAPAN INVENTORY (ENCS): Listed on inventory. KOREA INVENTORY (ECL): Listed on inventory. PHILIPPINE INVENTORY (PICCS): Listed on inventory.

16. Other information

Label requirements

WARNING!

ASPIRATION HAZARD.

Harmful or fatal if liquid is aspirated into lungs

MAY CAUSE ADVERSE LUNG EFFECTS IF HIGH CONCENTRATIONS ARE INHALED.

HMIS® Rating:

Health

Х

National Fire

Flammability 1 Physical

Protection

Association

Hazard Personal protection

(U.S.A.)

Date of issue

02/28/2007.

Date of previous issue

04/24/2006.

Prepared by

Product Stewardship

Notice to reader

Product ALPHA OLEFIN C1618

name

MSDS#

0000000643 (NAP)

Health

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Version 1

Date of issue 02/28/2007.

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Language ENGLISH.

Fire hazard

Instability

Specific hazard

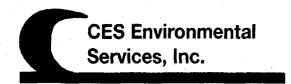
Build 4.2.7

The information in this Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. This information is a recommendation for safe handling, use, processing, storage, transportation, disposal, and release and Supplier shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material. This information relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified.

Product ALPHA OLEFIN C1618 MSDS # 0000000643 (NAP) Page: 5/5 name

Version 1 Date of issue 02/28/2007. Format US-COMP Language ENGLISH.

Build 4.2.7 (ENGLISH)



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/4/2008

Dear Gilbert Cavallos

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2689

Expiration Date 4/4/2010

Generator: Enterprise Products Operating LP/Station

Address: 803 County Road 407

Bay City, TX 77414

Waste Information

Name of Waste: Pigging waste, same as pigging waste generated at the Manvel 1

TCEQ Waste Code #: CESQ3191

Container Type:

Detailed Description of Process Generating Waste:

Pigging waste

Color: brown, white, black Odor: none

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level d

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

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http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information				
Company:		perating LP/Station 809			
Address:	803 County Road 407				
City, State, Zip:	Bay City, TX 77414				
Contact:	Jerry Trevino		Title:	Operation	Supervisor
Phone No:	979-245-7522 Ext. 20)24	Fax No:	979-244-	5888
24/hr Phone:	CES-713-676-1460				
U.S. EPA I.D. No:	T. CESQG			4 .	
State I.D.	CESQG		SIC Code:	JA	
SECTION 2: Billin	g Information – Sar	ne as Above			
Company:	Enterprise Products Ope	erating LP Station 812			
Address:	9315 Uzzell Road				
City, State, Zip:	Manvel, TX 77578				
Contact:	Kathleen Ballinger	Title:	Accounts Paya	able	
Phone No:	281-331-4693	Fax No:	281-331-0672		
•					
SECTION 3: Gene	ral Description of the V	Vaste			
					
	gging Waste-Same Stream of Process Generating	m as Pigging Waste gene Waste: Pigging Waste	rated at the Many	el location	
Physical State:	Liquid	Sludge	Powder		
Ť	⊠ Solid	Filter Cake	Combination	n	
	23 5044	r neer Consc		•	
Color: brown, white	<u>black</u> Ode	or: <u>none</u>			
Consider Consider (m)	-4	Density 10 the/col			
Specific Gravity (wa	wer=1): <u>1∵</u>	Density: 10 lbs/gal			
Does this material c	ontain any total phenol	ic compounds? 🔲 Yes	⊠ No		
Does this material c	ontain any para substit	uted phenolic compoun	ds? 🗌 Yes 🛭 🗵] No	
Layers:	Single-phase	☐ Multi-phase			
•	0.	•			
Container Type:	⊠ Drum	Tote	Truck	П	Other (explain)
Container Size:	55 gal			Land.	a care (co.g.co.co.)
Container Size:	<u>So yaı</u>		Annual Control of the		Approximate and an artist and an artist and an artist and an artist and artist ar
Frequency:	☐ Weekly	☐ Monthly	Quarterly		Yearly
Texas State Waste (Code No: CESC	23191			
Proper U.S. DOT S	nipping Name:	Non-RCRA; Non-Do	OT Regulated Ma	terial	
Class: NA	UN/NA:	NA	PG: NA		RQ: NA

Flash Point	р Н	Reactive Sulfides	Reactive Cya	nides	Solids
none	<u>NA</u>	Omg/l	<u>O</u> mg/l		100%
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/I	<u>O</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

(KOJÁRONASJESAVESE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Poly Pigs	90-100	%
Trash	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis on pigs from the Manvel Location-same application and product

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \(\sum \) generator knowledge and/or \(\sum \) analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

Authorized Signature: Wesley E. Heefter Field En	<u>v. Engr.</u>
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Lall Approved Rejected	
Approval Number: 2689	

S	ECTION 10: Waste Receipt Classification Under 40 CFR 437
I	s this material a wastewater or wastewater sludge? YES NO
I	f 'Yes', complete this section.
Ī	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Me</u>	tals Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oil</u>	S. Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Ore</u>	anics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic non-netroleum sources

(1)	If the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m; 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

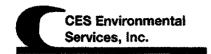
SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	Trans De Fre
	Trans De Fre
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	DA.
5.	Treatment and Handling Protocol:
	MAD C/252 T 50/6/5.
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460 7136761676

Attn:

Gary Brauckman

- CERTIFICATE OF RESULTS -

MES Lab#:

6120560

Client Sample ID:

Pipeline Pigs

Extended ID:

Enterprise Manvel

Sample Collect Date: 12/22/2006 @ 10:00:00 AM

Sample Receipt Date: 12/26/2006 @ 11:30:00 AM

Sample Type:

Grab

Toot Group / Mothod

Test Group / Method					
TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: TFR Date / Time
Arsenic	0.014	5	0.108	mg/L	12/29/2006 / 12:46 AM
Barium	0.0005	100	0.329	mg/L	12/29/2006 / 12:46 AM
Cadmium	0.002	1	0.007	mg/L	12/29/2006 / 12:46 AM
Chromium	0.002	5	0.006	mg/L	12/29/2006 / 12:46 AM
Lead	0.005	5	0.013	mg/L	12/29/2006 / 12:46 AM
Selenium	0.024	1	0.074	mg/L	12/29/2006 / 12:46 AM
Silver	0.002	5	0.007	mg/L	12/29/2006 / 12:46 AM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: TRAHM Date / Time
Mercury	0.0002	0.2	0.0022	mg/L	12/27/2006 / 10:31 PM
BTEX Method: SW-846 8021B	MDL):	Result	Units	Analyst: TFR Date / Time
Benzene	0.5		< 0.5	mg/kg	12/28/2006 / 11:07 PM
Toluene	0.5		1.2	mg/kg	12/28/2006 / 11:07 PM
Ethyl benzene	0.5		< 0.5	mg/kg	12/28/2006 / 11:07 PM
M+P-Xylene	0.5		< 0.5	mg/kg	12/28/2006 / 11:07 PM
o-Xylene	0.5		< 0.5	mg/kg	12/28/2006 / 11:07 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, January 02, 2007

Date

Report Date: 02-Jan-07

Page 1 of 1

6120560

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L		CCV %REC	MS %REC	MSD %REC	RPD
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	< 0.002 < 0.002 < 0.001 < 0.001 < 0.002 < 0.0002 < 0.024 < 0.001	94 105.0 109.4 109 106.1 101.0 108.1 110	94 105 110.9 107 109.2 97.5 91.4 109	0.7 0.43 1.32 2.50 2.90 3.53 16.7 0.91	< 0.000 < 0.000 < 0.000 < 0.000 < 0.000 < 0.000 < 0.000	2 1 1 2 2 02 4	91 101 107 103 107 102.0 87	76.4 65.2 70.9 70.0 67.7 64.9 73.4	77.2 67.7 72.0 72.2 71.9 61.8 75.6	1.04 3.8 1.5 3.0 6.1 5.0 3.06
ANALYTES	METHOD 8021B	MB mg/L		MS %REC	MSD %REC	RPD		CCV %REC		
Benzene Toluene Ethylbenzene m+p Xylene o-Xylene		< 0.005 < 0.005 < 0.005 < 0.005 < 0.005		87.6 78.6 95.4 87.6 90.8	90.3 84.1 100.6 92.6 95.8	3.04 6.76 5.31 5.55 5.36		107.6 105.2 103.6 101.8 101.4		
SURROGATE 4-Bromofluorok	SPIKE RECOVI	ERY FOR	ВТЕХ					% REC		· · · · · · · · · · · · · · · · · · ·

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

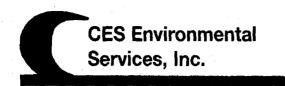
MS=Matrix Spike RPD=Relative Percent Deviation LCS=Laboratory Control Standard CCB=Continuing Calibration Blank MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery

Signature Holland D. Gilmore / Laboratory Director

January 01, 2007

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COMPANY NAME: (BILL TO:)	S Environ	mente				M	ES		- C	HAII	1 OF	CUS	TODY	1-800-771-4MES (281) 476-4534
COMPANY ADDRESS:						Mer 6913 1	cury E Hwy. 225	nvire • Dec	onme er Park	enta c, TX :	l Sei 77536	rvice	S	Fax (281)-476-4406
CONTACT PERSON'S NAME: 690	y Braych	naco	ZIP				PARAMET						/ /	REMARKS
CONTACT PERSON'S NAME: 69 910 CONTACT PERSON'S PHONE: 7/5-9	リブケフラブ	Z FAX #: _			_ 4	The state of the s	/						AIWERS	TURNAROUND TIME
YOUR PROJECT NO: YOUR PROJECT ADDRESS:	o. #: rman Enterg	YOUR PR	ROJECT NAM 14 LUE	ME:	\Box /							NUMBER OF COME	PRESERVATIONS	DETECTION LIMITS SPECIAL LIMITS REQUIRED Yes No
YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATE	IIX I	A G	3/ 1	′ (<u> </u>		/	\\ \frac{\pi}{\pi}	PRE	
pipeline pigs	6	12-22	10'.00	ian 5ch	rd,	/-						(or include separate sheet detailing requirements.
				·						-				
														·
								·						9
PERSON TAKING SAMPLE SIGNATURE (a Print		2 12	2		RELINQUIS (Signature)	HED BY:	, 21			DAT	E 26-66	TIME	A REC	CAVED BY
RELINQUISHED BY: // JUNEAR WAY (Signature)	DATE TIME	RECEIVED (Signature)	BY:		RELINQUIS (Signature)	HED DY				DAT	Ē	TIME	RE	CEIVED BY:
METHOD OF PAYMENT	SHIPPED BY: (Signature)			COURIER (Signature)	<u></u>			REC (Sign	EIVED F	OR MES	V		<u> </u>	10 M 3
Sample Remainder Disposal				· · · · · · · · · · · · · · · · · · ·	□ I Requ	est Lab To	Dispose	Of All Sa	ample R	emaind	ers	(>	T Kull V
☐ Return Sample Remainder To Client Via	· · · · · · · · · · · · · · · · · · ·				(Signature)							(Date)	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/4/2008

Dear Kathleen Ballinger

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2690

Expiration Date 4/4/2010

Generator: Enterprise Products Operating LP/Station

Address: 803 County Road 407

Bay City, TX 77414

Waste Information

Name of Waste: Electronic waste TCEO Waste Code #: UNIV319H

Container Type:

pallet

Detailed Description of Process Generating Waste:

No longer used electronic type equipment

Color: various

Odor: none

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. What we set when the set

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information				
Company:	Enterprise Products Oper	ating LP/Station 809			
Address:	803 County Road 407				
City, State, Zip:	Bay City, TX 77414				
Contact:	Jerry Trevino		Title:		Supervisor
Phone No:	979-245-7522 Ext. 2024		Fax No:	979-244-5	5888
24/hr Phone:	CES-713-676-1460				
U.S. EPA I.D. No:	/X CESQG				
State 1.D.	CESQG		SIC Code:	NA	
SECTION 2: Billin Company: Address:	ng Information - Same a Enterprise Products Operati 9315 Uzzell Road	is Above ng LP Station 812			
City, State, Zip:	Manvel, TX 77578				
Contact:	Kathleen Ballinger	Title:	Accounts Paya	ble	
Phone No:	281-331-4693	Fax No:	281-331-0672		
Name of Waste: El	n of Process Generating W		electornic type ed Powder Combination		
Color: various	Odor: 1	none			
Specific Gravity (w	ater=1):12 VQ-	Density: 104bs/gal	re .		
Does this material o	contain any total phenolic c	ompounds? 🗌 Yes	⊠ No		
Does this material o	ontain any para substitute	d phenolic compound	s? 🗌 Yes 🏻 🖾	No	
Layers:	Single-phase	☐ Multi-phase			
Container Type: Container Size:	Drum	Tote	Truck		Other (explain) Pallet
Frequency:	☐ Weekly ☐	Monthly	Quarterly	\boxtimes	Yearly
Texas State Waste	Code No: UNIV319	H			
Proper U.S. DOT S	hipping Name:	Environmentally hazar	rdous substances	, solid, n.o	.s, 9, UN3077, PG-III
Class: NA 9	UN/NA:	NA 3077	PG: NA	III	RQ: NA

Flash Point	рH	Reactive Sulfides	Reactive Cyanid	les	Solids
none	NA NA	<u>O</u> mg/l	<u>0</u> mg/l		<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>>1500</u> mg/l	>1500mg/l	Omg/I	Qmg/l	Qmg/l	

SECTION 4: Physical and Chemical Data

CONTROL CONTRO	(R) ((C) ((R) (R) (C))	Units
The waste consists of the following materials	Ranges are acceptable	or %
Electronic Waste	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title: Wisky E. Heet Wor/ Kelo	(Env. Eng.
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Loll Rejected Approval Number: 2690	

<u>S1</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Met</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
Ō	Tank clean-out from organic, non-petroleum sources

- If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
 If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
 Cadmium: 0.2 mg/L
 Chromium: 8.9 mg/L
 Copper: 4.9 mg/L
 Nickel: 37.5 mg/L

 If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above the waste should be classified in the organics subcategory.
- If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, on nickel above any of the values listed above, the waste should be classified in the organics subcategory.
 Metals Subcategory
 Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	754/16. Trans 28000/1019 4 \$50.
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
	New to weigh
	New to weigh Goes to Environmental light Becycles
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



·····



Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2691

Expiration Date 4/7/2010

Generator: Port of Houston-Bayport Terminal

Address: 12555 Port Rd

Port Road, TX 77507

Waste Information

Name of Waste: Used antifreeze TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: .8-1

Odor: 8

pH: 7-10

Physical State:

Incompatibilities: oxidizers, stron acids and bases

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Class:

NA

UN/NA:

NA

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

	U.S.	EPA ID	No: TXD0089	50461	ISWR	No: 3090	0
SECTION 1: Gener	ator Information						
Company:		Authority	- Day Part	Ton	lans.		
Address:	12555 Port Rd			•			
City, State, Zip:	Pasadena, TX 7	7507	·			·	
Contact:	Roxana Herrera			-	Title:	Mananger	•
Phone No:	713-670-2814		· · · · · ·		Fax No:	713-670-2	
24/hr Phone:	713-676-1460				•		
U.S. EPA I.D. No: 7			-			<i>i</i> A	
State I.D.	CESQG				SIC Code:	NA	
•					-		
SECTION 2: Billing	Information –	Same a	s Above				
	Port of Houston A						
	Environ mental At		111 East Loop No	orth			
	Houston, Texas 77		*				
Contact:	<u> </u>	terrent	Title:			· .	
Phone No:	713.6702463		Fax No	: 7	713.670.2427		
_			 .				
SECTION 3: Gener	al Description of	he Wast	e				
SECTION OF GUILD	ar Description of	THE TYMBE	<u> </u>				
Name of Waste: <u>Use</u> Detailed Description		ating Wa	ste: Equipment f	luid ch	nanges		
	5						
Physical State:	∠ Liquid		Sludge	Ш	Powder		
	Solid Solid		Filter Cake		Combination	ì	
Color: Yellowish/gre	<u>en</u>	Odor: g	lycol like				
-		_	•				
Specific Gravity (wa	ter=1): <u>.80-1.0</u>		Density: 8 lbs/ga	al			
Does this material co	ontain any total pl	enolic co	ompounds? 🔲 Y	es [⊠ No		
Does this material co	ontain any para si	bstituted	l phenolic compo	unds?	☐ Yes ⊠] No	
Layers:	Single-phas	e	☐ Multi-phase	•			
Container Type:	□ Drum		Tote		Truck		Other (explain)
- -		ш	Tote	لـــا	Truck	ш	Other (explain)
Container Size:	<u>55 Gal</u>						
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly
m) NT	ALA D	-1-11- NA / * 1				
Texas State Waste C	oae No:		clable Material				
Proper U.S. DOT Sh	ipping Name:		Non-RCRA/Non-	DOT r	egulated Mate	rial	

PG:

NA

ΝA

RQ:

Flash Point	pН	Reactive Sulfides	Reactive C	yanides Solids
<u>>200 F</u>	<u>7-10</u>	<u>0</u> mg/l	<u>0</u> mg/l	<u>2-4%</u>
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/I	>1500mg/l	Omg/I	Omg/l	Omg/l

SECTION 4: Physical and Chemical Data

	Ranges are acceptable	or %
The waste consists of the following materials Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level ${\bf D}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	$\underline{\mathbf{X}}$
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	\mathbf{X}
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	$\underline{\mathbf{X}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: 5/14/08
Printed Name/Title: Roxana Herrera Prog. Coord.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Pable Approved Rejected	
Approval Number: 2691	

	SECTION 10: Waste Receipt Classification Under 40 CFR 437
	Is this material a wastewater or wastewater sludge? YES NO
	If 'Yes', complete this section.
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
1	Metals Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>(</u>	Dils Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>(</u>	Organics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

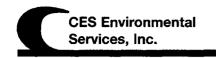
Metals Subcategory

Oils Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	NA Test for glyanl %.
	·
5.	Treatment and Handling Protocol:
	Glycol Recycling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



٠.	Tests for Froduct Recovered (if applicable):
	Ethylene Glycol
8.	Management for Product Recovered/Recycled (if applicable);
	Glycol Recycling



Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2692

Expiration Date 4/7/2010

Generator: Port of Houston-Bayport Terminal

Address:

12555 Port Rd

Port Road, TX 77507

Waste Information

Name of Waste: Oily shop towels TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Rags from general cleaning

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900



SECTION 1: General Company:					
Address:	12555 Port Road	Authority - Bay	bort Lea	winol	
City, State, Zip:	Pasadena, TX 77507				
Contact:	Roxana Herrera		Title:	Manager	
Phone No:	713-670-2814		Fax No:	713-670-2827	7
24/hr Phone:	713-676-1460		1 412 1 101		
U.S. EPA I.D. No: ~					
State I.D.	CESQG		SIC Code:	$\mathcal{N}A$	
SECTION 2: Billing Company: Address:	g Information - Same Port of Houston Authority Environ mental Affairs				
City, State, Zip:	Houston, Texas 77029				
Contact:	RUEAHA Herres	Title:			
Phone No:	713.6702463	Fax No:	713.670.2427		
SECTION 3: Gener	ral Description of the Wa	<u>ste</u>			
	of Process Generating V	Waste: Rags from Gener	al cleaning		
Physical State:	☐ Liquid ☐ ☐ ☐ Solid ☐	Sludge Filter Cake	Powder Combinatio	n	
Color: various	Odor	: oil like			
Specific Gravity (wa	nter=1): <u>1.1</u>	Density: 9 lbs/gal			
Does this material co	ontain any total phenolic	compounds?	⊠ No		
Does this material co	ontain any para substitu	ted phenolic compounds	s? 🗌 Yes	⊠ No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type: Container Size:	⊠ Drum □ 55 Gal	Tote	Truck	Ot	her (explain)
Frequency:	Weekly	Monthly 🖂	Quarterly	☐ Ye	arly
Texas State Waste Code No: CESQ4891					
Proper U.S. DOT Sh	nipping Name:	Non-RCRA/Non-DOT	regulated Mat	erial	
Class: NA	UN/NA:	NA	PG: NA	Λ	RQ: NA

Flash Point	pН	Reactive Sulfides	Reactive Cy	anides	Solids
>200 F	neutral	<u>O</u> mg/l	<u>0</u> mg/l		<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	0mg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	\mathbf{X}

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: <u>\$/17</u> /08
Printed Name/Title: <u>Roxana Herrera</u> Prog. Coop	<u>rd.</u>
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Follow Hay A	
Date: 3-26-08 (Approved) Rejected	
Approval Number: 2692	

ECTION 10: Waste Receipt Classification Under 40 CFR 437
this material a wastewater or wastewater sludge? YES NO
'Yes', complete this section.
LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
als Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
anics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic non-petroleum sources

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.					
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.						
	Chrom Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L					
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.						
		Metals Subcategory					
		Oils Subcategory					

SECTION 11: Additional Instructions

Organics Subcategory

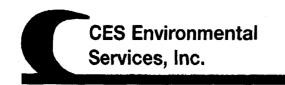
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):								
	\$45.00 per drum Transportation \$70.00 hr plus FSC								
,	Contomination I imits (maximum limit before sunshauges annly).								
2 <i>.</i>	Contamination Limits (maximum limit before surcharges apply):								
	NA								
3.	Surcharge Pricing:								
	NA								
4.	Special Testing Requirements:								
	NA theremust not be any free liquids								
İ									
Į									
5.	Treatment and Handling Protocol:								
	NA								
Į									
6.	Treated Wastewater Discharge Subcategory:								
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C								



/.	1ests for Product Recovered/Recycled (II applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable); Recycled Rags
8.	
8.	
8.	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2693

Expiration Date 4/7/2010

Generator: Port of Houston-Bayport Terminal

Address: 12555 Port Rd

Port Road, TX 77507

Waste Information

Name of Waste: Oil filters
TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment filter changes

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

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http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information											
Company:	Port of Houston Authority - BAyport Terminal											
Address:												
City, State, Zip:	Pasadena, TX 77	507										
Contact:	Roxana Herrera				Title:	Manager						
Phone No:	713-670-2814				Fax No:	713-670-2	2827					
24/hr Phone:	713-676-1460											
U.S. EPA I.D. No:	TXCESQG											
State I.D.	CESQG				SIC Code: A							
					_							
SECTION 2: Billing Information – Same as Above												
· · · -	Port of Houston Au											
Address:	Environ mental Af		111 East Loop No	orth_								
City, State, Zip:	Houston, Texas 770	029										
Contact:	ROEANNA H	ر ۷ د د د د د د د د د د د د د د د د د د	Title:	_								
Phone No:	713.6702463		Fax No	: _	713.670.2427							
SECTION 3: General Description of the Waste Name of Waste: Oil filters												
Detailed Description of Process Generating Waste: Equipment filter changes												
Physical State:	☐ Liquid ⊠ Solid		Sludge Filter Cake		Powder Combination							
Color: various		Odor:	<u>oil like</u>				•					
Specific Gravity (wa	iter=1): <u>12</u>	Density: 9 lbs/gal										
Does this material co	ontain any total ph	enolic c	ompounds? 🗌 Y	es	⊠ No							
Does this material co	ontain any para su	bstitute	d phenolic compo	unds?	☐ Yes	No						
Layers:	Single-phase	e	Multi-phase	;								
Container Type: Container Size:	∑ Drum <u>55 Gal</u>		Tote		Truck		Other (explain)					
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly					
Texas State Waste Code No: NA-Recyclable Material												
Proper U.S. DOT Sh	nipping Name:		Non-RCRA/Non-I	OOT r	egulated Mater	ial						
Class: NA	UN/	NA:	NA		PG: NA		RQ: NA					

Flash Point	pН	Reactive Sulfides	Reactive Cy	anides	Solids
>200 F	neutral	<u>O</u> mg/l	<u>0</u> mg/l		<u>98</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	Omg/l	Qmg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
Spent Oil Filters	98-100	%	
oil	0-2	%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	\mathbf{X}
TCLP Volatiles:	X
TCLP Semi-Volatiles:	$\underline{\mathbf{X}}$
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🔀 generator knowledge and/or 🔲 anal	ytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ab	ility to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards ha	ave been disclosed. I certify that the materials
tested are representative of all materials described by this document.	
Authorized Signature:	Date: 3/17/08
	Bac. 7/1/
Printed Name/Title: Roxana Herrera, Prog. Coord.	_
CEC LICE ONLY (DO NOT WRITE IN THIS SPACE)	

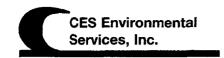
Authorized Signature:	_ Date: //1/00
Printed Name/Title: Roxana Herrera, Prog. Coord.	_
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Release Approved Rejected	
Date. Approved Rejected	
Approval Number: 2693	
2	

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is 1	this material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	els Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

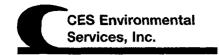
(1)	If the v	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
		um: 0.2 mg/L ium: 8.9 mg/L
		r: 4.9 mg/L
	Nickel	: 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

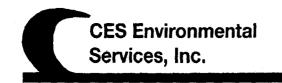


1,	base Frieng (including freight).
	\$35.00 Drum Transportation \$70.00 hour plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
;	
3.	
i	NA
i	
4.	
	NA
5.	Treatment and Handling Protocol:
	NA
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA .
8.	Management for Product Recovered/Recycled (if applicable);
	Recycle Oil Filters

Port of Houston 2694



Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2694

Expiration Date 4/7/2010

Generator: Port of Houston-Bayport Terminal

Address: 12555 Port Rd

Port Road, TX 77507

Waste Information

Name of Waste: Floor dry

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Clean up of oil spills

Color: white/grey

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

SRPOK

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

Q B

SECTION 1: Genera	ator Informatio	 1	"				
Company:	Port of	1204	ten Author	11-1-	nor Durt	termin	/A1
Address:	12555 Port Roa	id			~ <i> r</i> ~		
City, State, Zip:	Pasadena, TX 7	7507					
Contact:	Roxana Herrera	ı			Title:	Manager	
Phone No:	713-670-2814				Fax No:	713-670-2	2827
24/hr Phone:	713-676-1460						
U.S. EPA I.D. No:-	≮CESQG						
State I.D.	CESQG				SIC Code:	NA	
SECTION 2: Billing			as Above				
	Port of Houston A		· · · · · · · · · · · · · · · · · · ·				
	Environ mental A		111 East Loop N	orth			
	Houston, Texas 7						
Contact:	Rexama H	crevs	Title:				
Phone No:	713.6702463		Fax No	o:	713.670.2427		
SECTION 3: General Name of Waste: Floor	or dry	-					
Detailed Description	of Process Gene	rating W	aste: Clean up of	oil spi	<u>lls</u>		
	_			_			
Physical State:	☐ Liquid		Sludge		Powder		
	Solid		Filter Cake		Combination	n	
Color: White/Grey		Odor:	oil like				
	_				na		
Specific Gravity (was	ter=1): 4	2	Density: 10 lbs	gal	nh		
	·						
Does this material co	ntain any total p	henolic c	compounds?	Yes	⊠ No		
Does this material co	ntain any nara s	nhstitute	d phenolic comp	ounds?	Ves N	☑ No	
Does this material to	neam any para s		a phonone comp			-3 - 1 · 0	
Layers:	Single-pha	se	☐ Multi-phas	se			
	_			_		_	
Container Type:	□ Drum		Tote		Truck		Other (explain)
Container Size:	<u>55 Gal</u>						
20			N/I = 4 lo 1		Oa11-		Vacult
Frequency:	☐ Weekly	ш	Monthly	\boxtimes	Quarterly	Ll	Yearly
		ana - : -	0.1				
Texas State Waste Co	ode No:	CESQ48	91				
Proper U.S. DOT Sh	ipping Name:		Non-RCRA/Non-	-DOT ı	egulated Mate	erial	
Class: NA	UN	I/NA:	NA		PG: NA		RQ: NA

Flash Point	pН	Reactive Sulfides	Reactive Cyanide	es	Solids
>200 F	neutral	<u>0</u> mg/l	<u>0</u> mg/l		100%
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

Concentration Ranges are acceptable	Units or %
80-98	%
2-20	%
0-2	%
	Ranges are acceptable 80-98 2-20

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. $\underline{\text{Level }D}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below	y, WAS NOT PERFORMED based upon the following
generator knowledge:	

TCLP Metals:	X
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	X
Ignitability:	$\underline{\mathbf{X}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

omissions of composition properties exist and that all known or suspected hazards ha	ave been disclosed. I certify that the materials
tested are representative of all materials described by this document.	
Authorized Signature:	Date: 3/17/08
Printed Name/Title: Roxana Herrers, Prog. Coord.	-
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 3-26-08 Approved Rejected	
Date: 3-26-08 Approved Rejected	
Approval Number: 2694	

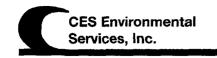
SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES ⊠ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

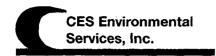
SECTION 11: Additional Instructions

Organics Subcategory

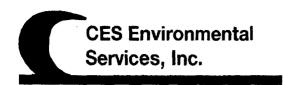
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
1	NA
4.	
	NA Must have no free floating liquids
	That have no title troating liquids
	V
i	
_	PR
5.	Treatment and Handling Protocol:
	NA Class 1 solids
4	Chs 2 some
	·
i	
_	Tuesdad Wasterwater Direkturgs Cychastergawy
6.	Treated Wastewater Discharge Subcategory:
[_
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
į	



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
3.	Management for Product Recovered/Recycled (if applicable):
	NA NA
	NA
	NA NA
	NA NA
	NA NA



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2695

Expiration Date 4/7/2010

Generator: Port of Houston-Bayport Terminal

Address: 12555 Port Rd

Port Road, TX 77507

Waste Information

Name of Waste: Used oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: brown/black

Odor: oil like

pH: 7-10

Physical State:

Incompatibilities: oxidizers, strong acids and bases

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gen					
Company:	Port of Houston Au	thority (Bayport Termi	nal)		
Address:	12555 Port Road				
City, State, Zip:	Pasadena, TX 7750)7			
Contact:	Mike Reilly		Title:		
Phone No:	281.691.6140		Fax No:	713-670)-2429
24/hr Phone:	281.691.6140				
U.S. EPA I.D. No:	CESQG				
State I.D.	CESQG		SIC Code:		
SECTION 2: Billio	ng Information – S	ame as Ahove	·		
Company:	Port of Houston Auth				
Address:	Environ mental Affair		orth		
City, State, Zip:	Houston, Texas 77029				
Contact:	Roxanna Herrera	Title:			,
Phone No:	713.670.2814	Fax No	713.670.2427		
SECTION 3: Gene	ral Description of the	Waste			
DECITOR OF	AND DOUGHT OF THE	***			
Name of Waste: Us Detailed Descriptio		ng Waste: Equipment fl	uid changes		
_			_		
Physical State:	∠ Liquid	☐ Sludge	Powder		
	☐ Solid	Filter Cake	Combination		
			-		
Color: brown/black	o	dor: <u>oil like</u>			
Specific Gravity (w	ater=1): <u>.80-1.0</u>	Density: 8 lbs/ga	1		•
Does this material c	ontain any total nhan	olic compounds? 🔲 Ye	es 🕅 No		
Does this material t	ontain any total phen	one compounds.	C3 E21140		
Does this material c	ontain any para subst	ituted phenolic compor	ınds? 🗌 Yes 🛛	No	
Layers:	Single-phase	Multi-phase	•		
Container Type:	⊠ Drum	Tote	☐ Truck		Other (explain)
Container Size:	<u>55</u>				
Container Size.	<u>55</u>				
			•		•
Frequency:	Weekly	☐ Monthly	Quarterly		Yearly
Texas State Waste (oda No. NA.	Recyclable Material			
Proper U.S. DOT SI	nipping Name:	Non-RCRA/Non-D	OT regulated Mater	ial	
Class: NA	UN/NA	: NA	PG: NA		RQ: NA

Flash Point >200 F	pH 7-10	Reactive Sulfides Omg/l	Reactive Cy Omg/l	anides	Solids <2%
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>>1500</u> mg/l	>1500mg/l	<u>O</u> mg/I	<u>O</u> mg/I	<u>O</u> mg/i	

SECTION 4: Physical and Chemical Data

***************************************	COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
Water			0-10	%
Oil			90-100	%
		ζ.	,	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

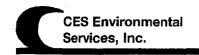
tested are representative of all materials described by this document.	azards have been disclosed. I certify that the materials
Authorized Signature:	Date: 4-7.08
Printed Name/Title: Roxana Herrera	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Letter Approved Rejected	
Approval Number: 2495	

<u>s</u> :	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Met	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

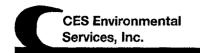
(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom: Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

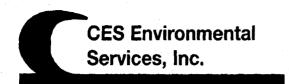
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water
	Transportation \$70.00 hour plus fuel surcharge
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	flesh soit work reen of class in the
	flampoint, mos, 755, % solids in the oil. pH, metals, phenolics on water
	on water
Į	
5.	Treatment and Handling Protocol:
	Black Oil Management
1	
ĺ	
5.	Treated Wastewater Discharge Subcategory:
ſ	
	☐ Subcategory A ☐ Subcategory C
L	



7.	Tests for Product Recovered/Recycled (if applicable):
	Chlor-D-Tect, flash point
8.	Management for Product Recovered/Recycled (if applicable);
	black oil



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/7/2008

Dear Bill Glushko

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2696

Expiration Date 4/7/2010

Generator: KMCO, Inc.

Address: 16503 Ramsey Rd.

Crosby, TX 77532

Waste Information

Name of Waste: Hazardous SIB washwater

TCEQ Waste Code #: 9005219H

Container Type:

Detailed Description of Process Generating Waste:

Caustic washing of reaction product (molten sulfur and sulfurized isobutylene)

Color: iodine/amber

Odor: mercaptan/strong

pH: 9-13 typical

Physical State:

Incompatibilities: contact w/ strong acids will evolve H2S

Safety Related Data/Special Handling:

Rubber boots, rubber gloves, goggles, respirator, chem suit

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	KMCO				
Address:	16503 Ramsey Roa	ad			
City, State, Zip:	Crosby, TX 77532				
Contact:	Bill Glushko		Title:	Environmental Manager	
Phone No:				281-328-0291	
24/hr Phone:	281-635-1114		_		
U.S. EPA I.D. No:	TXD074198961		_		
State I.D.	31904		SIC Code:	2869	
SECTION 2: Billing	Information – 🖂 S	Same as Above			
Company:					
Address:					
City, State, Zip:				· · · · · · · · · · · · · · · · · · ·	
Contact:		Title:			
Phone No:		Fax No:			
		Tun 1101			
SECTION 3: Genera	al Description of the	e Waste			
	<u> </u>				
Name of Waste: Haz					
Detailed Description	of Process Generati	ing Waste: caustic washing	of reaction prod	uct (molten sulfur and sulfurized isobuty	lene)
			_		مع بر و
Physical State:	🛛 Liquid	Sludge	Powder		
	☐ Solid	Filter Cake	Combination	1	
Color: iodine/amber	C	dor: mercaptan/strong			1
Specific Gravity (wat	ter=1): <u>1.37</u>	Density: 11.4 lbs/ga	l		
					,
Does this material co	ntain any total phen	nolic compounds? 🔲 Yes	⊠ No		`
	•	-			
Does this material co	ntain any para subs	tituted phenolic compound	ls? 🗌 Yes 🛛 🖂	No	
T (1 TT) (1 1 ()		AL DIRECTAL DO CAO	CED D 461 C		
		e operation NESHAP? (40			
-		ene AND if the SIC code from			10
2812 2813 2816			2833 2834	2835 2836 2841 2842 284	
2844 2851 2861		2873 2874 2876	2879 2891	2892 2893 2896 2899 29	11
3312 4953 4959	9511				
Layers:	Single-phase	☐ Multi-phase			
	∑ ≈g F				
Container Type:	☐ Drum	☐ Tote 🛛	Truck	Other (explain)	
Container Size:			5000	_	
Container Size.			<u> </u>		
Frequency:	Weekly Mon	thly 🗌 Quarterly 🔲	Yearly 📙 🤇	One Time	
Number of Units (con	itainers): 5-10 (varie	es) Other:	_		

Characteristic for Texas Waste Code N	D001 Ignitable		D3 Reactiv D007 I that apply	□ D008 [-	_ D(010 □ D 0	11
	T-+-	T 0.161)				~		
Flash Point >150	pH	Reactive Sulfides		tive Cyanides	5	Solids 0-1%		
Oil&Grease	9-13 typical	100-2500 typicalmg/I	<20r	ng/I	Nickel	<u>U-1%</u>		
<100 typicalmg/l	<2500mg/l	NAmg/I	NAmg/1		NAmg/l			
SECTION 4: Physic	cal and Chemical D				entration		Units	
The v		following materials		Ranges an			or %	
water	vaste consists of the	Tonowing materials		70-90	Сиссор		%	
sodium hydroxide			<u> </u>	2-15			%	
sulfurized salts; sulf	ides and solids	·	-	2-15			%	
sulfurized isobutyler				0-2			%	
NaHS				3-5			%	
SECTION 5: Safety If the handling of thi Rubber boots, rubber	is waste requires the	e use of special protective of special protective of special protective of the suit	equipment	, please expla	in.			
SECTION 6: Attack	and Supporting Dog	umante						
		nalysis attached to this for	m as part	of the waste a	approval	packag	ge.	
SECTION 7: Incom	<u>patibilities</u>							
Please list all incomp								
SECTION 8: Gener	ator's Knowledge I	Documentation						
Laboratory analysis generator knowledge		aste characteristics, listed	below, WA	AS NOT PER	FORME	D based	d upon the f	iollowing
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatile Reactivity: Corrosivity: Ignitability:	s:							

SECTION 9: Generator's Certification

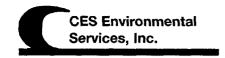
The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: A. M. Janken	Date: <u>03/14/2008</u>
Printed Name/Title: Bill Glushko, Environmental Manager	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Rebban Thank	mate B. to fill it
Date: 4-7-08 Approved Rejected	PFI
Approval Number: 2696	

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? X YES Пио If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources



1.	Base Pricing (including freight):
2.	Contamination Limits (maximum limit before surcharges apply):
	^
_	
3.	Surcharge Pricing:
	»* •
4	Special Testing Degnisements
4.	Special Testing Requirements:
	ph, density, Sulfides, TOC, metals, Flash Point
	V ,
ļ	
5.	Treatment and Handling Protocol:
	Specially treatment.
ı	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☑ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
ı	
8.	Management for Product Recovered/Recycled (if applicable);
i	

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.							
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.							
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L l: 37.5 mg/L							
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.							
		Metals Subcategory							
		Oils Subcategory							
	\boxtimes	Organics Subcategory							

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

> KMCO inc 16503 Ramsey Rd Crosby, TX 77532

Phone: (281) 328-0220

(281) 328-0291 Fax:

Attn:

Bill Glushko

- CERTIFICATE OF RESULTS -

MES Lab#:

8030181

Client Sample ID:

TK 789

Sample Collect Date: 3/7/2008 @ 12:00:00 PM

Sample Type:

Grab

Sample Receipt Date:

Test Group / Method						
Reactivity, Recoverable Hydrog	en Cyanide				Analyst: CL	
Method: 7 3,3,2	MDL		Result	Units	Date / Time	<u> </u>
Hydrogen Cyanide	0.25		< 0.25	mg/kg	3/10/2008 /	3:15 PM
Reactivity, Recoverable Hydrog			m. 14	14 0.	Analyst: CL	
Method: 7.3.4.2	MDL		Result	Units	Date / Time	
Hydrogen Sulfide	0,25		905	mg/kg	3/13/2008 /	10:30 AM
Corrosivity: pH					Analyst: JE	
Method: SW-846 9045	MDL		Result	Units	Date / Time	<u> </u>
pH			11.6		3/7/2008 /	5:15 PM
Ignitability					Analyst; DB	
Method: SW-846 1010	MDL		Resuit	Units	Date / Time	!
Flashpoint			>150	đẹg F	3/10/2008 /	11:40 AM
TCLP Mercury					Analyst: TFI	₹
Method: SW-846 7470A	MDL	RL_	Result	Units	Date / Time	
Meroury	0,100	0.2	< 0.100	mg/L	3/9/2008 /	11:28 PM
TCLP Volatiles					Analyst: HD	G
Method: SW-846 8260B	MDL	RL	Result	Units	Date / Time	
Vinyl chloride	0.10	0.2	< 0.10	mg/L	3/9/2008 /	3:53 PM
1,1-Dichloroethene	0,05	0.7	< 0.05	mg/L	3/9/2008 /	3;53 PM
2-Butanone	0.50	200	< 0.50	mg/L	3/9/2008 /	3:53 PM
Chloroform	0.05	6	< 0.05	mg/L	3/9/2008 /	3:53 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	3/9/2008 /	3:53 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	3/9/2008 /	3:53 PM
Benzene	0.05	0.5	< 0.05	mg/L	3/9/2008 /	3:53 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	3/9/2008 /	3:53 PM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	3/9/2008 /	3:53 PM

Report Date: 17-Mar-08

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8030181

Client Sample ID:

TK 789

Sample Collect Date: 3///2008 Sample Receipt Date:	3 @ 12:00:00 I	°M		Sample Type:	Grab	
Chlorobenzene	0.05	100	< 0.05	mg/L	3/9/2008 /	3:53 PM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	3/9/2008 /	3:53 PM
Hexachlorobutadiene	0.05	0.5	< 0,05	mg/L	3/9/2008 /	3;53 PM
TCLP Sem-Volatiles Method; SW-846 8270C	MDL	RL	Result	Units	Analyst: TFI Date / Time	R
Pyridine	5,00	5	< 5.00	rng/L	3/9/2008 /	8:08 PM
1,4-Dichlorobenzene	5.00	7.5	< 5.00	mg/L	3/9/2008 /	8;08 PM
o-Cresol	5.00	200	< 5.00	mg/L	3/9/2008 /	8:08 PM
m+p-Cresol	5.00	200	₹ 5.00	mg/L	3/9/2008 /	8:08 PM
Hexachloroethane	5.00	3	< 5.00	mg/L	3/9/2008 /	8:08 PM
Nitrobenzene	5.00	2	< 5.00	mg/l	3/9/2008 /	8:08 PM
Hexachlorobutadiene	5.00	0.5	< 5.00	mg/L	3/9/2008 /	8:08 PM
2,4,6-Trichlorophenol	5.00	2	< 5.00	mg/L	3/9/2008 /	8:08 PM
2,4,5-Trichlorophenol	5.00	400	< 5.00	mg/L	3/9/2008 /	8:08 PM
2,4-Dinitrotoluene	5.00	0.13	< 5.00	mg/L	3/9/2008 /	8:08 PM
Hexachlorobenzene	5,00	0.13	< 5.00	mg/L	3/9/2008 /	8:08 PM
Pentachlorophenol	50,0	100	< 50.0	mg/L	3/9/2008 /	8:08 PM
TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Resuit	Units	Analyst: HD Date / Time	G
Arsenic	0.140	5	0.341	mg/L	3/11/2008 /	10:38 PM
Barium	0.0050	100	0.165	mg/L	3/11/2008 /	10:38 PM
Cadmium	0.020	1	0.020	mg/L	3/11/2008 /	10:38 PM
Chromlum	0.020	5	< 0.020	mg/L	3/11/2008/	10:38 PM
Lead	0.050	5	0.060	mg/L	3/11/2008/	10:38 PM
Selenium	0.240	1	< 0.240	mg/L	3/11/2008/	10:38 PM
Silver	0.020	5	< 0.020	mg/L	3/11/2008/	10;38 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

John Keller, Ph.D., Lab Director

Monday, March 17, 2008

Date

Report Date: 17-Mar-08

Page 2 of 2

SURROGATE SPIKE RECOVERY FOR VOLATILES

% REC

8030181

MERCURY ENVIRONMENTAL SERVICES **QA/QC REPORT**

Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene						95.8 89.4 105.9		
VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99,0	91	2.1	88,4	< 0.005	100.4	98	0,6
2-Butanone	103.0	95,6	1.9	90.6	< 0.050	101.8	103,6	0.4
Chloroform	93.8	86	2.2	88,2	< 0.005	96,2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96,2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95,6	0.6
Trichloroethene	96.8	88,6	2.2	90.2	< 0.005	98.8	99.6	0,2
Tetrachioroethene	100.0	91.4	2.2	87.7	< 0.005	139,0	98.8	8.5
Chlorobenzena	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78,4	3.2	88. 6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0,6

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC	
2-Fluorophenol	84.7	
Phenol-d6	99.4	
Nitrobenzene-d5	79.7	
2-Fluorobiphenyl	91.6	
2,4.6-Tribromophenoi	49.6	
p-Terphenyl-d14	50.9	

- Mercury Environmental Services, Inc. ---

8030181 Page 2

QA/QC REPORT CONTINUED

SEMI-VOLA	TILES	MS %REC	MSD %REG	c	CCV %REC	MB mg/L		LCS %REC	LCSD %REC	
Pyridine 1,4-Dichlorobenzene o-Cresol m+p Cresol Hexachloroethane Nitrobenzene Hexachloro-1,3-butadiene 2,4,6-Trichlorophenol 2,4-5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Pentachlorophenol		40.5 38.2 34.3 35.3 52.3 33.1 34.9 39.2 36.6 29.6 47.6 29.1	49.8 45.8 40.5 37.6 39.1 53.8 36.3 40.4 36.9 29.6 46.6 24		84.1 113.3 110.0 117.4 115.7 106.2 101.4 101.9 98.3 95.3 112.6 65.4	< 0.05 < 0.05		34.4 56.2 57.8 54.2 49.6 42.5 51 41.8 37.9 28.7 54.4	49.6 46.6 53.8 45 49.1 51.4 65.6 65.6 57.2 46.4 41.1	
ANALYTE	MB mg/L	LCS %REC	LCSD %REC		RPD		MS %REC	CCB mg/L		CCV %REC
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	< 0.005 < 0.002 < 0.004 < 0.007 < 0.010 < 0.0002 < 0.005 < 0.008	93.5 96.0 92.0 99.8 92.0 97.2 93.1 94.8	94.0 97.4 92.0 100.0 92.0 98.4 92.0 94.8		0.63 1.45 0.00 0.20 0.00 0.83 1.19 0.00		101.0 100.0 96.8 98.0 97.2 96.6 92.4 95.2	< 0.005 < 0.002 < 0.004 < 0.007 < 0.010 < 0.000 < 0.005 < 0.006	2	97.6 94.2 96.7 98.0 94.2 98.6 95.3 93.9
ANALYTE		STD								
Flashpoint		82°F								
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD				- 114 5		
рН	7.0	9.94	9.94	0.00						
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD						
Reactivity as I	Hydrogen Sulfide	905	905	0.00				— -		

– Mercury Environmental Services, Inc. –

8030181 Page 2

QA/QC REPORT CONTINUED

SEMI-VOLA	TILES	M\$ %REC	MSD %REC	>	CCV %REC	MB mg/L		LCS %REC	LCSD %REC	
Pyridine 1,4-Dichlorobenzene o-Cresol m+p Cresol Hexachloroetharie Nitrobenzene Hexachloro-1,3-butadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Pentachlorophenol		40.6 38.2 34.3 35.3 52.3 33.1 34.9 39.2 36.6 29.6 47.6 29.1	49.8 45.8 40.5 37.6 39.1 53.8 36.3 40.4 36.9 29.6 46.6 24		84.1 113.3 110.0 117.4 115.7 106.2 101.4 101.9 96.3 95.3 112.6 65.4	< 0.05 < 0.05		34.4 56.2 57.8 54.2 49.6 42.5 61 41.8 37.9 28.7 54.4 47	49.6 46.6 53.8 45 49.1 51.4 65.2 65.6 59.6 57.2 46.4 41.1	
ANALYTE	MB mg/L	LCS %REC	LCSD %REC		RPD		MS %REC	CCB mg/L		CCV %REC
Arsenic Barlum Cadmium Chromium Lead Mercury Selenium Silver	< 0.005 < 0.002 < 0.004 < 0.007 < 0.010 < 0.0002 < 0.005 < 0.006	93.5 06.0 92.0 99.8 92.0 97.2 93.1 94.8	94.0 97.1 92.0 100.0 92.0 96.4 92.0 94.8		0,53 1,45 0,00 0,20 0,00 0,83 1,19 0,00		101.0 100.0 96.8 98.0 97.2 96.6 92.4 95.2	< 0.005 < 0.002 < 0.004 < 0.007 < 0.010 < 0.000 < 0.005 < 0.006	2	97.6 94.2 96.7 98.0 94.2 98.6 95.3 93.9
ANALYTE		STD				•				
Flashpoint		82°F								
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD						, · · · · ·
рН	7.0	9.94	9.94	0.00						
ANALYTE	·	ORIG mg/kg	DUP mg/kg	RPD						
Reactivity as	Hydrogen Sulfide	905	905	0.00						

– Mercury Environmental Services, Inc. –

PAGE 04/06

WES

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8030181 Page 2

QA/QC REPORT CONTINUED

ORIG DUP STD mg/kg mg/kg RPD %REC

Reactivity as Hydrogen Cyanide 0.00 0.05 18.18 99

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature:

John Kelier / Laboratory Director

March 17, 2008

- Mercury Environmental Services, Inc. •

Marga

- CHAIN OF CUSTODY

Mercury Environmental Services 6913 Hwy. 225 • Deer Park, TX 77536 1-800-771-4MES

(281) 476-4534

Fax (281)-476-4406

03/17/2008

16:49

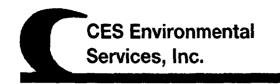
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06/06

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COMPANY NAME: (BILL TO:)

COMPANY ADDRESS:



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/8/2008

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2697

Expiration Date 4/8/2010

Generator: Enterprise products Operating LP-Jacintoport Facility

Address: 15602 Jacintoport Rd

Houston, TX 77015

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Collection of rainwater contaminated with machine oils in containment area

Color: varies

Odor: hydrocarbon

pH: 5-9

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





DC

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information				
Company:	Enterprise Products Ope	rating (OTI - Jacintopor	t Facility)		
Address:	15602 Jacintoport Road				
City, State, Zip:	Houston TX 77015		-		
Contact:	Stephen Craig		Title:	_Environm	nental Scientist
Phone No:	281-385-4396		Fax No:	281-385-4	4532
24/hr Phone:	713-320-4591				
U.S. EPA I.D. No:	TXR000032821				
State I.D.	86196		SIC Code:	N	`A
SECTION 2: Billin	ng Information – Same Enterprise Products Opera			·	
Address:	P.O. Box 573 Attn. Accou	ints Payable			
City, State, Zip:	Mont Belvieu, TX 77580				
Contact:		Title:			
Phone No:	281-385-4200	Fax No:	· · · · · ·		

SECTION 3: Gene	eral Description of the Wa	ste			
SECTION S. GON	Tur bescription of the via	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
Name of Waste: O Detailed Description		Vaste: collection of rain	water contamin	ated with n	nachine oils in containment area
Physical State:	☑ Liquid☐ Solid☐	Sludge	Powder Combination	n	
Color: varies	Odor	none - hydrocarbon			
Specific Gravity (water=1): 1 Density: 8.3 lbs/gal					
Does this material contain any total phenolic compounds? Yes No					
Does this material	contain any para substitut	ed phenolic compounds	? 🗌 Yes 🛛	No	
Layers:	Single-phase	Multi-phase			
Container Type:	□ Drum □	Tote 🖂	Truck	П	Other (explain)
Container Size:		1000	5000 gal	اسما	curi (explain)
Container Size.			<u> 5000 gai</u>		
Frequency: Number of Units (o Texas State Waste	´ -	Other:	Quarterly		Yearly
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material					
Proper U.S. DOI S	Shipping Name:	Non RCRA/Non DOT	Regulated Mat	erial	
Class: NA	Shipping Name: UN/NA:	Non RCRA/Non DOT NA	Regulated Mate		RQ: NA

Oil&Grease TOC Zinc Copper Nickel OOOmg/l Omg/l .458 Omg/l 0.005 Omg/l 0.002	Flash Point >150	рН <u>5-9</u>	Reactive Sulfides Omg/l	Reactive Cyanid Omg/l	es	Solids <1%
SECTION 4: Physical and Chemical Data	Oil&Grease	1	Zinc	Copper		
SECTION 4: Physical and Chemical Data				1 2	1 3.78	

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	97-99	%
Oils (compressor, motor, etc)	1-3	%
		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following enerator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or wi omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the mate tested are representative of all materials described by this document.

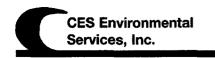
Authorized Signature:	Date: <u>March 20, 2000</u>
Printed Name/Title: Stephen J. Craig / Field Environmental Scientist	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 4-S-08 Approved Rejected	
Approval Number: 2697	

30	CITON 10: Waste Receipt Classification Under 40 CFR 457
Is	this material a wastewater or wastewater sludge? YES NO
If	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	els Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.					
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exof the values listed below, the waste should be classified in the metals subcategory.					
	Chror Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L 1: 37.5 mg/L					
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper above any of the values listed above, the waste should be classified in the organics subcategory.					
		Metals Subcategory					
	\boxtimes	Oils Subcategory					
		Organics Subcategory					

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$0.12/gallon
	Freight: \$70.00/hour
- 1	
l	
_	
2.	Contamination Limits (maximum limit before surcharges apply):
	Solids: 1%
}	Solids: 1% TOC: 5,000 should not be an emulsion.
1	
- 1	
l	
_	
3.	Surcharge Pricing:
- [Solids: \$0.01/gallon/percent greater than 1%
	TOC: \$0.03/gallon/5,000 TOC greater than 5,000 TOC
l	
4.	Special Testing Requirements:
	standard of the standard
	standard pH, TOC, phenol.
ĺ	
l	
_	
5.	Treatment and Handling Protocol:
ļ	Recycle- pull bottom (hydrocarbon free) water from bottom and wastewater treated. Take hydrocarbon layer from top to
	back for processing.
l	
,	The sect of Wilcohn was town Disabours Contractors were
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
l	
8.	Management for Product Recovered/Recycled (if applicable):
	put in black oils
i	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Dana Carter

From: Miles Root

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/03/08

Lab Memo: 08-053

Subject: Enterprise Oil Tanking Evaluation 0408-011

A sample of contaminated water from Enterprise Oil Tanking has been tested for processing at CES. This stream represents collected rainwater that is contaminated with machine oils. This particular sample has only a partial oil sheen, but the evaluation form indicates a possible two to five percent of oil may be possible in this stream. This water treats easily, has a flash point greater than 140 deg F, is acceptable in metals, contains no phenols, and has a low TOC. We should process this material by drawing off the oil free water from the bottom of the trailer and move any oil layer to the back for processing. The analytical summary is found below.

Enterprise Eval 0408-011				
рН	7			
Oil	Sheen			
Solids	0			
Phenois	0			
Flash Point	>140 deg F			
TOC, mg/L	874			
Metals, ppm	 			
Cd	0.008			
Cr	0.000			
Cu	0.005			
Ni	0.022			
Zn	1.458			



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/8/2008

Dear Wesley Heefner

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2698

Expiration Date 4/8/2010

Generator: Enterprise Products Operating LP/Station

Address: 803 County Road 407

Bay City, TX 77414

Waste Information

Name of Waste: Caustic flakes TCEQ Waste Code #: Product

Container Type:

Detailed Description of Process Generating Waste:

Unused caustic flakes (container inspected by G. Brauckman w/CES

Color: white

Odor: none

pH: na

Physical State:

Incompatibilities: acids

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information					
Company:	Enterprise Products Op	erating LP/Station 809				
Address:	803 County Road 407					
City, State, Zip:	Bay City, TX 77414					
Contact:	Jerry Trevino		Title:	Operation Supervisor		
Phone No:	979-245-7522 Ext. 202	4	Fax No:	979-244-5888		
24/hr Phone:	CES-713-676-1460		•			
U.S. EPA I.D. No:	XCESQG					
State I.D.	CESQG		SIC Code:	NA		
			•			
SECTION 2: Billin	g Information – 🔲 Same	as Above		1		
Company:	Enterprise Products Opera	ating LP Station 812	Enterprine	e products (may wol)		
Address:	9315 Uzzell Road					
City, State, Zip:	Manvel, TX 77578	 	-			
Contact:	Kathleen Ballinger	Title:	Accounts Paya	ible		
Phone No:	281-331-4693	Fax No:	281-331-0672			
	· · · · · · · · · · · · · · · · · · ·					
SECTION 3: Gener	ral Description of the Wa	iste				
SECTIONS: Gene	ar bescription of the vi	1510				
Name of Waste: Ca Detailed Description		Waste: Unused Caustic F	lakes (Containe	er inspected by G. Brauckman w/CES		
•	J					
Physical State:	Liquid [] Sludge	Powder			
·	⊠ Solid □	Filter Cake	Combination	•		
		, , , , , , , , , , , , , , , , , , ,		•		
Color: White	Odor	: none				
		. <u>none</u>				
Specific Gravity (water=1): 1.3 vb Density: 10 lbs/gal						
Does this material contain any total phenolic compounds? Yes No						
Does this material c	ontain any para substitu	ted phenolic compounds	? ∐Yes ⊠	No		
Τ	∇/ C*	The Mariation Design				
Layers:	⊠ Single-phase	☐ Multi-phase				
	F-1					
Container Type:	□ Drum □] Tote	Truck	Other (explain)		
Container Size:	<u>5 gal</u>					
				-		
10	[] xx/l-l [l Mandhler [7]	Owantante	□ Wearly		
Frequency:	☐ Weekly ☐	Monthly	Quarterly	Yearly		
Number of Units (co	· —	Other: One-time				
Texas State Waste C	Code No: NA-Pro	oduct				
Proper U.S. DOT SI	nipping Name:	Sodium Hydroxide, sol	id, 8, UN1823,	PG-II		
Class: 8	UN/NA:	UN1823	PG: PG-	II RQ: NA		

Flash Point	pH	Reactive Sulfides		ive Cyanides	Solids	
none	NA-Solid	<u> 0mg/l</u>	<u>0mg/l</u>		100%	<u> </u>
Oil&Grease	TOC	Zinc	Copper	Nickel		
<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	0mg/l	<u>0</u> mg/l		
SECTION 4: Phys	sical and Chemica	I Data				
		NIISTABLE		Concentratio	n	Units
The	e waste consists of	the following materials		Ranges are accep	table	or %
Sodium Hydroxide	e Flakes			100		%

			•			
Non-Available Gar	y Brauckman with	or analysis attached to this in CES inspected the unused provided in		of the waste approva	l packa	ge.
SECTION 8: Gen	erator's Knowleds	<u>e Documentation</u>				
Laboratory analys generator knowled		s waste characteristics, liste	ed below, WA	S NOT PERFORM	ED base	d upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volati Reactivity: Corrosivity: Ignitability:	les: $\frac{\underline{X}}{\underline{X}}$ \underline{X} \underline{X} \underline{X} \underline{X} \underline{X} \underline{X} \underline{X}					
SECTION 9: Gen	erator's Certificat	<u>ion</u>				
The information con attached description omissions of compo	ntained herein is ban is complete and a position properties ex	used on generator knowle accurate to the best of my saist and that all known or suggested by this document.	knowledge an ispected hazai	d ability to determin	e that r	no deliberate or will

Rejected

Date: _

Authorized Signature: ___

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rabha RIL

Approval Number: 2698

Printed Name/Title: No Signature Required Raw Product non-waste

Approved

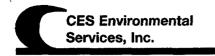
ECTION 10: Waste Receipt Classification Under 40 CFR 437
this material a wastewater or wastewater sludge? YES NO
'Yes', complete this section.
LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
als Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals
Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
anics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

(1)	II the	waste contains on and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces values listed below, the waste should be classified in the metals subcategory.
	Chrom Coppe	tum: 0.2 mg/L tium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, of above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	30°0/56x/Dreem Trans 280°0 4 x 3e
	T1945 28000 4 x 3e
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	DA
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
	Itande carefully avoid water and acids. Can be dissolved in water
	Handle carefully, avoid water and acids. Can be dissolved in water five to the formula of the matter a country of solution for operations. When classes
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	WA
8.	Management for Product Recovered/Recycled (if applicable);
	W)A

71 8-4-09 LA9 T-35



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/8/2008

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2699

Expiration Date 4/8/2010

Generator: Randall's - Safeway, Inc

Address: 10700 Telge Rd

Houston, TX 77095

Waste Information

Name of Waste: Recyclable oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Refrigeration unit oil change

Color: black

Odor: ammonia

pH: 4-10

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

No. 0851 Y. 1

Apr. 3. 2008 8:56AM

CES Environmental Services, inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

		EQ Industrial Solid Wa PA ID No: TXD0089504		30948 (o: 30980	
SECTION 1: General Company: Address:		Rondall's - Sol	Eury Inc.		
City, State, Zip: Contact: Phone No:	Dia ives	7x. 77015	Title; Fax No;	Nast-Ingr.	
24/hr Phone: U.S. RPA I.D. No: State I.D.	Treso) _A	SIC Code;	NA	
SECTION 2: Billing Company: Address:	Information - 15 Sel Ce T 223 Mcarl	Emiente			
City, State, Zip: Contact: Phone No:	Herogram (lei white 231-960-391	. Title:	5cles 71725	-17 L)	
SECTION 3: Genera	l Description of the	Waste			
Name of Waste: Ro Detailed Description	eylagh Oil of Process Generat	ing Waste: Refriger	otion Unit	oil change ou	+
Physical State:	Liquid Solid	☐ Sludge	Powder		
Color: Blak	(odor: America	Does this	material contain a nuds? I yes	ny tetra prenotic
Specific Gravity (wat	ter=1): <u>.9</u> -1	Density: 8 lbs/gal	Door His	material Contains	any some-
Layers:	Single-phase	Multi-phase	substitu	ted phonolic composition	Inds. No
Container Type: Container Size:	Drum, SS, SJ.	Tote	Truck	Other (explain)	
Frequency: Number of Units (cor Texas State Waste Co		Other:	Quarterly	Yearly	
Proper U.S. DOT Shi	ipping Name: UN/N	V Non R	era IN	A DOT Regul	ated Material
Flash Point	PH 4-10	Reactive Sulfides	Reactive Cys	0-2%	
Oll&Grease	TOC	Zine	Copper	Nickel N W mad	

p.2 No. 0851 P. 2

SECTION 4: Physical and Chemical Data

GOMEONICATION The waste consists of the following materials	Gond nivation	UNIT
The waste consists of the following materials	Ranges are acceptable	or %
used latigeration as oil		1007

	-		
SECTION 5: Safety Related Data			
If the handling of this waste requires the use of special protection—	re equ i pment	i, please explain.	
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis attached to this	form as part	of the waste approval pac	kage.
SECTION 7: Incompatibilities			
Please list all incompatibilities (if any):			
- Widize			
SECTION 8: Generator's Knowledge Documentation			
Laboratory analysis of the hazardous waste characteristics, list generator knowledge:	ed below, W	AS NOT PERFORMED be	ased upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:			
SECTION 9: Generator's Certification			
The information contained herein is based on generator knowled attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or stested are representative of all materials described by this document	knowledge a suspected haza	and ability to determine the	it no deliberate or willfu
Authorized Signature: Kenin Whote		Date: 4-3-0	8
Printed NamerTitle: Kw for Du; litsing -	· · · · · · · · · · · · · · · · · · ·		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)			
Compliance Officer: Lebharthang	Additional	Information:	
Date: 18-08 (Approved) Rejected	VWV		
Approval Number: 2699			

No. 0851 P. 3

SECTION 10: Waste Receipt Classification Under 40 CFR 437
Is this material a wastewater or wastewater sludge? YES NO
If 'Yes', complete this section.
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory: Subpart A
Spent electroplating baths and/or shadges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

No. 0851 P. 4

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

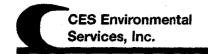
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

	Metals Subcategory
M	Oils Subcategory
П	Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!

1.	Base Pricing (including freight):	
	No disposal, trans only + foc	
	Contamination Limits (maximum limit before surcharges apply):	. '
L		
_	Surcharge Pricing:	
	for pricing change	
	100,000	
L		
	Special Testing Requirements:	
	Black or Listendasition	
L		
-	Treatment and Handling Protocol:	
Γ		
L		
_]	Treated Wastewater Discharge Subcategory:	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C	
L		

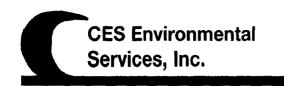
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests f	for Product Recovered/Recycled (if applicable):
, ·	1 03 00 1	or reduce reco ; ored, rece ; ored in applicable,

Black Oil Blendability

8. Management for Product Recovered/Recycled (if applicable);

Bland w) Black oil



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Scott Hanson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2

2678

Expiration Date 3/31/2010

Generator: Electro-Coatings of Texas, Inc. (Navigation)

Address: 6220 Navigation Blvd.

Houston, TX 77011

Waste Information

Name of Waste: Coolant

TCEO Waste Code # 00021191

Container Type:

Detailed Description of Process Generating Waste:

Used coolant from machine operations

Color: clear

Odor: none

pH: 9.8

Physical State:

Incompatibilities: strong acids or oxidizers Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.





CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information			•	4	
Company:	Electro-Coatings of	Texas Inc				
Address:	6220 Navigation					4.
City, State, Zip:	Houston, TX 7701	1			·	
Contact:	Scott Hanson		Title:			
Phone No:	(713) 923-5935		Fax N	o: (713) 9	23-1463	
24/hr Phone:	(713) 818-0985		,			•
U.S. EPA I.D. No:	TXR000079059				,	
State I.D.	86805	·····	SIC C	ode:		
CEICTEON A. DUIV.		A %	,	•	•	
	Ig Information - See Electro-Coatings of Te					
Company: Address:		zas, mc				······
•	216 Baywood					
City, State, Zip:	Houston, TX 77011	n.				·
Contact:	Scott Hanson		itle:	2 1462		
Phone No:	713-923-5935	r:	ax No: 713-92	3-1463		
SECTION 3: Gene	ral Description of the	<u>Waste</u>		•		
Name of Waste: Co Detailed Description	oolant n of Process Generatin	ng Waste: used co	oolant from machin	ne operations		
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter Cake	Powd	er oination		
Color: clear	Oc	lor: <u>none</u>				
Specific Gravity (wa	nter=1): <u>1.05</u>	Density: 8.	4 lbs/gal			
Does this material c	ontain any total pheno	lic compounds?	☐ Yes ⊠ No		•	
Does this material c	ontain any para substi	tuted phenolic co	ompounds? 🔲 Y	es 🛭 No		
Layers:	Single-phase	Multi-	phase	•		
Container Type:	⊠ Drum	☐ Tote	☐ Truc	k 🔲	Other (explain)	
Container Size:	<u>55 gal</u>					
Frequency:	☐ Weekly	☐ Monthly	Ouar Ouar	terly \	Yearly	
Number of Units (co		Other:		. —	· · · · · · · · · · · · · · · · · · ·	
Texas State Waste C	,	21191				•
Proper U.S. DOT Sh	ipping Name:	Non RCRA/I	Non DOT Regulate	ed Material		
					DO 311	
Class: NA	UN/NA:	NA	PG:	NA	RQ: NA	

Flash Point NA	pH 9.8	Reactive Sulfides Omg/l	Reactive Cyanide	es Solids 0%
Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	>1000mg/l	Omg/l	Omg/l	Omg/l

SECTION 4: Physical and Chemical Data

GONTRONENTS 4 ABOR The waste consists of the following materials			Concembation Ranges are acceptable	or %	
StarCool 111			100	%	
				1	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. \underline{MSDS}

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

strong acids or oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of	the hazardous waste	characteristics, li	sted below, V	VAS NOT PE	RFORMED base	ed upon the fol	lowing
generator knowledge:	•						

2
2
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_
_

SECTION 9: Generator's Certification

Authorized Signature:	Date: <u>3-28-08</u>
Printed Name/Title: Scott Hanson	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Colland May A	
Date: 3-31-08 Approved Rejected	
Approval Number: 2678	

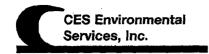
SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Coppe	um: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, of above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

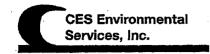
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If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!

1.	Base Pricing (including freight):
	\$35.00/deum
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	Test for glycol concentration, pH
5.	Treatment and Handling Protocol:
	glycol racycling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!

7. .	Tests for Product Recovered/Recycled (if applicable):	
ļ	ethylene glyld	
8.	Management for Product Recovered/Recycled (if applicable);	
	gly of recycling	
	- -	

STARCHEM StarCool 111

Synthetic Cutting and Grinding Fluid Concentrate

GENERAL DESCRIPTION

StarCool 111 is a high performance synthetic cutting and grinding fluid designed for ferrous materials, and particularly for those shops that prefer to use an oil-free product. It has been formulated to provide excellent lubricating, cooling, and corrosion inhibition properties in light to moderate duty grinding and machining of ferrous metals for "standalone" machines and central systems.

APPLICATION

StarCool 111 is ideal for grinding applications such as centerless, ID, OD, and Blanchard. It is extremely low foaming, making it an excellent choice for high pressure applications. StarCool 111 can also be used for light to moderate duty machining of carbon steels, stainless steels, alloy steels, and nodular and malleable cast irons in milling and turning operations without chlorine or sulfur-based additives. StarCool 111 is not recommended for non-ferrous metals.

ADVANTAGES

- Superior hybricity for ferrous metals without the use of EP additives
- Extremely low foaming in high pressure applications
- Excellent corrosion and microbial control
- Low odor and mist
- Clear mix for good part visibility
- Rejects tramp oil for long sump life
- Oil free for easy recycling or disposal
- Low carry off for reduced concentrate usage

StarCool 111 does not contain nitrite, chlorine, silicone, or phenolic biocides.

PHYSICAL PROPERTIES

Form	Clear Liquid	Specific Gravity (H ₂ O=1)	1.05
Boiling Point	212°F	pH (concentrate)	9.8
Flash Point (COC)	NA	Typical Operating pH Range	8.8-9.2
Solubility in Water	100% Miscible	Refractometer Factor	3.2

AVAILABILITY

StarCool 111 is available in 5-gallon pails, 55-gallon drums, and in bulk.

1

STARCHEM StarCool 111

RECOMMENDED STARTING DILUTIONS

Centerless, ID, OD, Surface Grinding Light to Moderate Duty Machining

5% - 7%

6% - 8%

MIXING INSTRUCTIONS

Always add StarCool 111 concentrate to water. Mix concentration can be determined using a refractometer.

	S	tarCool 111	CONCENT	RATION	
Concentration	4% (1:25)	5% (1:20)	6% (1:17)	7% (1:14)	10% (1:10)
Refractometer					. :
reading	1.3	1,6	1.9	2.2	3.2

StarCool 111 is not recommended for use on magnesium or alloyed magnesium.

Using premixed concentrate as makeup will improve performance and reduce usage. The specific makeup concentration selected for your situation should balance the water evaporation rate with the coolant carry-off rate. Adding makeup concentrate at 20-30% of the desired working concentration will generally maintain the proper concentration in use. The use of deionized or mineral-free water will also improve performance, prolong sump life, and reduce concentrate usage.

HEALTH & SAFETY

The most recent MSDS is available from either STARCHEM or your authorized STARCHEM Distributor.

NOTES

- Consult STARCHEM before using this product on any metals or applications not specifically recommended
 - Do not use any metalworking fluid additives except as recommended by STARCHEM
 - The general description, recommended uses, application data and statements in the product literature are guidelines. Because this product may be used for a variety of applications over which STARCHEM, Inc. has no control, STARCHEM, Inc. assumes no liability for incidental, consequential, or direct damages of any kind regardless of causes, including negligence.

STARCHEM INC.

4455 Bethany Road Mason, OH 45040 Tel (513) 229-7827 Fax (513) 336-0538

MATERIAL SAFETY DATA SHEET

STARCOOL 111

METALWORKING FLUID CONCENTRATE

Section 1. Chemical Product and Company Identification

Product Name: StarCool 111

Generic Name: Metalworking Fluid

Manufacturer: STARCHEM

Emergency Telephone Number: 1-800-424-9300

4455 Bethany Road Mason, OH 45040

Information Telephone Number: 1-513-229-7827

Date Prepared: 10/07/2002 MSDS No.: 110

Material Uses: Coolant and lubricant for metalworking processes

Section 2. Hazardous	Ingredient/Identity Information	
HAZARDOUS INGREDIENTS	CAS#	RANGE, %
Triethanolamine	102-71-6	10 – 20
Ethanolamine	141-43-5	5-10
Dicarboxylic acid mixture	72162-23-3	1-5
Nonanoic acid	112-05-0	1-5

Product is a primary e	Section 3. Hazard (dent re irritant. Product is alkaline, and corrosi	ve to aluminum, Highway spills could
result in slippery condi	tions. No other significant health effects a	
	Concentrated Product	Diluted Product in Use
Inhalation	Not applicable	Upper respiratory imitation may occur on extended exposure to mists
Eye Contact	Product is a primary eye	Will cause a stinging sensation in the
	irritant	eye
Skin Contact	Product is not a primary skin irritant	Not irritating to the skin when used as recommended
Ingestion	Not crally toxic	Swallowing small amounts is not expected to cause injury
Exposure to in-use mis	can be minimized by proper ventilation,	and mist collectors.
	be experienced when the mix concentrati	
	1-513-229-7827 for specific recommend	ations.
	NTP: No IARC: No OSHA: No	
Signs and symptoms	of exposure: Eye injury may occur from	contact with concentrated product. Skin
rritation can occur from	improper handling or use of concentrate	or mix.
	nerally aggravated by exposure: Exist	

Section 4. Emergency and First Aid Measures

Eyes: In case of eye contact with the concentrated product or mix, flush immediately with running water for 15 minutes. Get prompt medical attention.

Skin contact: In case of skin contact with concentrated product, wash with water as soon as possible. Mix is not irritating to the skin when used as recommended.

Ingestion: Do not induce vomiting if concentrate or mix is swallowed. Dilute by drinking water or milk, and immediately contact a physician. Swallowing small amounts of mix is not expected to cause injury. Inhalation: Not expected to be a primary route of exposure for the concentrate. Inhalation of mist can occur. OSHA has set a 15 mg/M³ PEL as a nuisance level for airborne particulates. NIOSH has set a 0.5 mg/M³ REL for metalworking fluid mist.

	Section 5. Fire	and Explosion Data	
Flash Point (COC), °F: NA			
	Flamilia	ıble Limits:	
Lower Explosive Limit: NA	·	Upper Explosive Limit: NA	1
Extinguishing Media: NA			
Special Fire Fighting Proce	dure: None		
Unusual Fire and Explosion	n Hazards: None		
Hazardous Combustion Pro	oducts: Smoke, fume	s, and oxides of carbon and r	nitrogen
NFPA Ratings	Health	Flammability	Reactivity
-	1	0	0

Section 6. Accidental Release Measures

Contain the spill, and collect on absorbent material. Discard according to Federal, state and local regulations.

Section 7. Handling and Storage

Use only as recommended by STARCHEM. Avoid all contact of concentrate with eyes or skin. Do not swallow. If frozen, product separates. Thaw completely at room temperature and stir thoroughly prior to

Other Precautions - Contains amines. Do not add sodium nitrite or other nitrosating agents to the concentrate or mix due to the potential for nitrosamine formation.

Section 8. Exposure Control/Personal Protection

Respiratory Protection: Concentrated product is not volatile.

Personal Protection: Safety glasses, work apparel, and impervious gloves. Wear goggles when

handling product concentrate.

Engineering Controls: Normal shop ventilation is adequate for most applications. However, when high mist levels are generated or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of mist collectors is recommended.

Section 9. Physical/Chemical Characteristics				
Boiling Point	212 °F	Evaporation Rate	Like water when diluted	
Specific Gravity	1.05	Solubility in Water	100% miscible	
Vapor Pressure (mm Hg)	ND.	Appearance/Odor	Clear/Chemical	
Melting Point	ND	pH (concentrate)	9.8	
Vapor Density	ND	pH (5.0% mix)	8.9	

Section 10. Stability/Reactivity	
Stability: Stable	
Conditions to Avoid: NA	
Materials to Avoid: Avoid contact with strong acids or oxidizers.	
Hazardous Polymerization: Will not occur.	
Combustion Products: Smoke, fumes, and oxides of carbon and nitrogen	

Section 11. Disposal Considerations

For Used Mix: Disposal procedures must comply with Federal, state, county, and local regulations.

For Unused Concentrate: Concentrate is not a hazardous waste as defined by 40 CFR 261.

Section 12. Transport Information				
	Hazardous Materials (49 CFR 172.101)	.Hazard Class (49 CFR 172.101)		
By Land	Not a hazardous material	NA		
BY Air or Vessel (49 CFR 175-176)	Corrosive Liquid, n.o.s. (contains ethanolamines) UN1760	Corrosive		

	EXPOSURE G	UIDELINES			
REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Metalworking Fluid Mist	0.5 mg/M ³			·	
Triethanolamine				5 mg/M³	
Ethanolamine	3 ppm	3 ppm		3 ppm	6 ppm
EPCRA (SARA) TITLE III Extrem					
Hazardous Substances (311, 31 OSHA Hazard Communication St	2): Product concentra	ate is a haza	dous substa		
Hazardous Substances (311, 31	2): Product concentra	ate is a haza eportable un	dous substa		
Hazardous Substances (311, 31 OSHA Hazard Communication St	Product concentral Andard and may be n HAZARD CAT	ate is a haza eportable un	dous substa		
Hazardous Substances (311, 31 OSHA Hazard Communication St 311 and 312. Acute Health: Yes Chronic Haalth: No	2): Product concentra andard and may be n HAZARD CAT	ate is a haza eportable und EGORIES ire: No Jeactive: No	dous substa der the provis	sions of SARA	
Hazardous Substances (311, 31 OSHA Hazard Communication St 311 and 312. Acute Health: Yes Chronic Health: No RCRA: Product concentrate is not	2): Product concentra andard and may be n HAZARD CAT F F A hazardous waste a	ate is a haza eportable und EGORIES ire: No leactive: No as defined by	dous substa der the provis	sions of SARA	
Hazardous Substances (311, 31 OSHA Hazard Communication St 311 and 312. Acute Health: Yes Chronic Haalth: No RCRA: Product concentrate is not TSCA: All of the Ingredients in this	2): Product concentra andard and may be n HAZARD CAT F F A hazardous waste as product are on the	ate is a haza eportable und EGORIES Fire: No Leactive: No as defined by FSCA inventor	dous substa der the provis 40 CFR 261 bry.	sions of SARA	Sections
Hazardous Substances (311, 31 OSHA Hazard Communication St 311 and 312. Acute Health: Yes Chronic Health: No RCRA: Product concentrate is not	2): Product concentra andard and may be n HAZARD CAT F a hazardous waste as product are on the shave enacted Right e information in this s	ete is a haza eportable und EGORIES ire: No Leactive: No is defined by ISCA inventi I-To-Know la sheet may no	dous substa der the provis 40 CFR 261 Dry, ws that required the meet every	sions of SARA re information	Sections beyond ements.

NOTE: The opinions expressed herein are those of STARCHEM and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the conditions of use of this product are beyond the control of STARCHEM, no guarantee or representation, expressed or implied, is made. It is the user's obligation to determine the conditions of safe use of this product.

78C 2679 2679



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear CKG Zack

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2679

Expiration Date 3/31/2010

Generator: TBC Brianadd **Address:** 235 Fariss St.

Houston, TX 77054

Waste Information

Name of Waste: Ammonium bisulfite in aqueous solution

TCEQ Waste Code # CESQ1052

Container Type:

Detailed Description of Process Generating Waste:

Off-spec material

Color: clear blue green

pH: 4.8-5.8

Physical State:

Incompatibilities: ignition sources **Safety Related Data/Special Handling:**

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Odor: sulfite

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

BC

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	
Company:	TBC-BRIHADD
Address:	235 FARRIS
City, State, Zip:	HOUSTON, TX 71054
Contact:	FAC MCKAUGHTAN Title:
Phone No:	Fax No:
24/hr Phone:	211-541-4829
U.S. EPA I.D. No:	TX CE SQG
State I.D.	CES QG SIC Code: NA
CECTION A DUN	Y 6
	Information - Same as Above
Company:	CYG SERVCES
Address:	10707 HOHER EGYPT KO.
City, State, Zip:	MONTEOMERY, TX 77316
Contact:	ZAC NCKAUGHOOL Title:
Phone No:	Fax No:
SECTION 3. Cana	ral Description of the Waste
SECTION 3: Gene	rai Description of the Waste
Name of Waste: <u>P</u> Detailed Description	MMONIUM BISULFITE IN AQUEOUS SOULTION n of Process Generating Waste: Off Spec material
Physical State:	🖾 Liquid 🔲 Sludge 🔲 Powder
	Solid Filter Cake Combination
1	-
Color: <u>ClPU</u> V blu	t-green Odor: <u>Sulfit</u>
	9
Specific Gravlty (w	ater=1): $\frac{1\cdot 2}{1\cdot 2}$ Density: $\frac{10\cdot 1}{100\cdot 100}$ 1bs/ga)
	·
Does this material c	ontain any total phenolic compounds? 🔲 Yes 🛮 💢 No
Does this material c	ontain any para substituted phenolic compounds?', 🗌 Yes 🔀 No
Layers:	Single-phase Multi-phase
-	_ ^
Container Type:	Drum Tote Truck Dther (explain)
Container Size:	55cal)
Container Size.	
Frequency:	☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (co	
Texas State Waste	Code Man
Proper U.S. DOT S	hipping Name: BISULFITES, AQUEOUS SOUTH OAS, 1.0.5
Class: &	UN/NA: 11421692 PG: TIT_ RQ: 5000

Flash Point NOHFLAMMARY E	pH 4.8 - 5.8	Reactive Sulfidesmg/l	Reactive Cyani	des Sol	ids)%
Oil&Grease ()mg/l	TOC mg/l	Zinc (^_)mg/l	Copper mg/l	Nickelmg/l	
		,			
SECTION 4: Physics				::::::::::::::::::::::::::::::::::::::	Salesta Salesta
The w	aste consists of th	e following materials		ncentration s are acceptable	e or %
Ammonium	BISHLAT			0°lo	,
water		•		υĐ.	
SECTION 5: Safety	Related Data				
		he use of special protective	e equipment, please ex	plain.	
— level D		and the abstract by and	1 - 1 to 100 - 100 - 3 to 100 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 -		
SECTION 6: Attach	ed Supporting Do	cuments			
		analysis attached to this f	orm as part of the was	ite approval pa	ckage.
M	.s DS				,
SECTION 7: Incom	<u>patibilities</u>				
Please list all incomp					
SECTION 8: Genera	ator's Knowledge	<u>Documentation</u>			
Laboratory analysis generator knowledge		waste characteristics, liste	d below, WAS NOT P	ERFORMED I	oased upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles Reactivity: Corrosivity: Ignitability:					
SECTION 9: Gener	ator's Certificatio	<u>n</u> /			
attached description is omissions of composi	is complete and action properties exi	ed on generator knowled courate to the best of my set and that all known or subjectibed by this document.	knowledge and ability ispected hazards have	to determine the	at no deliberate or wil I certify that the mater
Authorized Signatur	e:		p	nate: 3/20/	as a
Printed Name/Titler	7	M Kaugh	Lea	, .	
CES USE ONLY (DO NO	T WRITE IN THIS S	PACE)			
Compliance Officer	chell	end			
Date: 3-31-6	8 (A	pproved Rejected			
Approval Number:	2679				

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	this material a wastewater or wastewater sludge? TYES YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	ils Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(I)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.		
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.			
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L		
(3)		If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, on nickel above any of the values listed above, the waste should be classified in the organics subcategory.		
		Metals Subcategory		
		Oils Subcategory		
		Organics Subcategory		

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$65/dm
2.	Contamination Limits (maximum limit before surcharges apply):
	None
3.	Surcharge Pricing:
	None
4.	Special Testing Requirements:
	None pH
- l	
5.	Treatment and Handling Protocol: Class 1 liquids to Newpark or to Landfill
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA .
8.	Management for Product Recovered/Recycled (if applicable);
	NA

TBC 235 FARISS Houston, TX 77054 3 downs

Therefore Chemical Colors

MATERIAL SAFETY DATA SHEET

••		i Ni		
*****	·********	· *****	****	***
	SECTION			
********		*****	****	大大大大公公公公公大大大
MANUFACTURER:	ANEDCO		NFPA CODE	<u>:5</u> :
ADDRESS:	10429 KOENIC			_
MATERIAL ATT ENTENDED MA	HOUSTON, TEX			mmability = 0
EMERGENCY TELEPHONE NO.: TRANSPORTATION EMERGENCY:	(281) 484-39 CHEMIREC 108	- 1111		ctivity = 0 lch = 1
LATEST REVISION DATE:	10-20-98	300-424		lch = 1 cial = Cor
DESTRUCTION TO A TO	10 20-96		≖P#	719T 4 (*OT
PRODUCT NAME;	ANEDÇO®	AO-18		
CHEMICAL NAME & SYNONYMS:	Ammonium Bis	ulfite 🖫	Aqueous Solut:	ion
FORMUTA/CAS NO. :	Inorganic Ac	id salt	_	
*****	****	***	****	***
SECTIO: ***************************	N II - HAZARI	OUS COME	onents	
	Cas Number	11111		Tn1ts)
<u> Hazardous Ingredients</u>	CAS NUMBER		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MH CB)
Ammonium Bisulfite	10192-30-0	וונון ו	D N.	æ.
******			****	
	IBYKG - III N	CAL PROPE	rt ie s	
**********	*****	0.01	1	·
BOILING POINT ('V): 212-2	.18		GRAVITY (H.0):	
VAPOR PRESSURT (mm Rg.): ~ 35			(By weight 1)	ME,
VAPOR DENSITY (Atr=1): ≈ 2.0	-	7(1)	ION RATE (Ether)	
SOLUBILITY IN WATER: Solut		西庭 1	-226:	4.9-5.8
Abpearance and odog: Clear	. bine-graen e	0100100	sharp sulfite)UOI
	TV - FIRE AND			

PLASH POINT (Mathod Used):	Nonflammable	•		
FLAMMABLE LIMITS %:	LOWER: N.E.	.411	PER: N.E.	
EXTINGUISHING MEDIA:		commended	for combustib	les in storage
	area.	II I		
SPECIAL PIRE FIGHTING PROCEDU	a aantai	are cool Ber	honena Larmos	
in fighting fires must	against	mides of sulfu	r and ammonia.	
in fighting fires must Fire fighters, close	in conta	ct with fumer	. ahould wear	
self-contained breathing			, ,	
UNUSUAL FIRE AND EXPLOSION HA				
Dangerous when heated	tion.	hen heated, to	oxic fumes of	
sulfur dioxide are emit				

M980:4 9002.21.9AM UNITED SALL CORP.

ANEDCO MATERIAL SAFETY DATA ANEDCO® A0-181 PAGE 2 SECTION V - HEALTH MAZARD DATA *********** THRESHOLD LIMIT VALUE: Not Established EFFECTS OF OVEREXPOSURE: Liquid may cause eye and skin irritation. May cause mose and throat irritation. EMERGENCY AND FIRST ALD PROCEDURES: Flush with water for at least 15 minutes and get medical For EYES: attention. SKIN: Wash contacted area thoroughly with soap and water. If redness or irritation persists, seek medical attention. If spilled on clothing, remove and launder before reuse. INHALATION: Remove to fresh air and give oxygen 1f breathing is difficult. If breathing difficulty persiate obtain medical attention. INGESTION: Induce vomiting, seek immediage medical attention. Never give anything by mouth to an unconscious person. SECTION VI - REACTIVITY DATA STABILITY: Stable Will not occur HAZARDOUS POLYMERIZATION: Strong mineral acids
High temperatures caused by
neutralization with caustic. Avoid
rapid wixing with strong acids and
strong mases. INCOMPATIBILITY (Materials to avoid): CONDITIONS TO AVOID: Heat on agids release sulfur dioxide HAZARDOUS DECOMPOSITION PRODUCTS: and ammonia. Contain spill immediately. Avoid discharge into sewer and natural waters. Remove all sources of ignition. Absorb with inert absorbent material (sand, dirt, clay, absorbent, etc.). Large spills should be diked and may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers: Comply with all Federal, State, and Local Laws.

Incinerate in approved system, use approved landfill, or dispose of in

accordance with Local, State, and Federal Regulations.

MAR. 19. 2008 4:09PM UNITED SALT CORP.

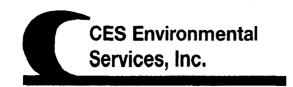
MASTE DISPOSAL:

ANEDCO MATERÍAL SAFET Y DATA SHEET ANEDCO® A0-181 PAGE 3 SECTION VIII - SPECIAL PROTECTION INFORMATION RESPIRATORY PROTECTION (Specify Type): Use NIOSH certified respirator if vapor on mist is generated when the material is heated or handled. VENTILATION TYPE REQUIRED (Local, Mechanical, Special): Natural ventilation should be provided. Provide adequate ventilation to hold vapor concentration below 5 ppm. PROTECTIVE CLOTHING: Rubber gloves should be worn to avoid prolonged or repeated contact with the liquid. Chemical safety goggles or face shield should be worn to avoid contact with the eyes. For prolonged or repeated exposures, use impervious synthetic rubber boots and apron BECTION IX - SPECIAL PRECENTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers tightly closed. Handle in adequately ventilated areas. Avoid overheating of drume or storage tanks | Keep away from heat, flames and sources of ignition. OTHER PRECAUTIONS: Avoid prolonged inhalation of vapors. Use good housekeeping practices and clean up spills, promptly. ******** SECTION X - TRANSPORTATION DATA ******* D.O.T. PROPER SHIPPING NAME: Bisulfites, Aqueous Solutions, n.o.s., (contains Ammonium Bisulfite), 8, UN 2693. PG III, NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO.: 154 ************* SECTION AI - ENVIRONMENTAL/SAFETY REGULATIONS No reporting required of SARA Title III, Section 113 (Superfund Amendments and Reauthorization Act). Ammonium Bisulfite is on the TSCA inventory (TOXIC Substances Control Act). According to CERCIA (Comprehensive Environmental Response, Compensation, and Liability Act), Ammonium Bisulfite requires notification to the National Response Center of release of quantities equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4. The RQ value for Ammonium Bisulfite is 5,000 pounds.

MAR. 19.2008 4:09PM UNITED SALT CORP.

3,4

nterphise 2680



Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2680

Expiration Date 3/31/2010

Generator: Enterprise Products Operating, L.P.

Address:

10207 FM 1942, Attn: Rachel Wheaton

Mont Belvieu, TX 77580

Waste Information

Name of Waste: Recyclable fuel hydrocarbon and water mixture (process waste

TCEQ Waste Code # Recycle

Container Type:

Detailed Description of Process Generating Waste:

Fuel and process water mixture from cleaning treater unit on inbound fuel stream

Color: brown

Odor: hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

NUA PFI sheds DN

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gene				
Company:	Enterprise Product	S		
Address:	PO Box 573			
City, State, Zip:	Mont Belvieu, TX	77580	artenik (i man (artenik 4. july 1. july	
Contact:	Ed Laszcz		Title:	Sr. Environmental Scientist
Phone No:	281-385-4300		Fax No:	
24/hr Phone:	281-385-4200			
U.S. EPA I.D. No:	NA			
State LD.	NA		SIC Code:	1321
SECTION 2: Billin	g Information – 🛛 S	Same as Above		
Company:				
Address:				
City, State, Zip:		, , , , , , , , , , , , , , , , , , ,		
Contact:		Title:		
Phone No:		Fax No:		
SECTION 2. C.		***		
SECTION 3: Gene	ral Description of the	e waste		
				ter) from Chloride Treater from cleaning treater unit on inbound fuel
Dhamiani Caran	⊠		☐ Powder	
Physical State:	⊠ Liquid	☐ Sludge		
	☐ Solid	Filter Cake	Combinatio	n e e e e e e e e e e e e e e e e e e e
Color: Brown	c	Odor: Hydrocarbon	Does this	note id contain any total phone
		Ador: <u>117diquaroon</u>	Comonde	of you
Specific Gravity (wa	nter=1): <u>1</u>	Density: 8.34 lbs/gal	congonas	1 7es 6 100
			Does this	maked contain any para
Layers:	Single-phase	Multi-phase	र्धिह	mater contain any para studia phenoix compands I yes I
				<u> </u>
Container Type:	Drum	☐ Tote	⊠ Truck	Other (explain)
Container Size:			<u>5000</u>	
	_			
Frequency:		Monthly	Quarterly	
Number of Units (co	ntainers): 40,000 g	<u>al</u> Other: _		
Texas State Waste C	Code No: NA	RECYCLE		
Proper U.S. DOT Sh		Flammable liquids,	n.o.s. (xylene, iso	-octane)
Class: 3	UN/NA	A: UN1993	PG: II	RQ: NA
Flash Point	pH	Reactive Sulfides	Reactive C	yanides Solids
₹ 00	3-11	NAmg/I	NAmg/I	0-2%
Oil&Grease	TOC	Zinc	Copper	Nickel
NAmo/i	NAmg/I	NAmo/I	NAmo/I	NAmo/I

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	85-95	%
NaOH	1-5	%
NaCl	1-5	%
Iso-octane and other related hydrocarbons / spooge	5-10	%
xylene	5-10	%
other hydrocarbons	5-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. $\underline{Standard\ PPE}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Mr Oxidizus

TCLP Metals:

Reactivity:

TCLP Volatiles:

TCLP Semi-Volatiles:

SECTION 8: Generator's Knowledge Documentation

NA

NA

tested are representative of all materials described by

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following enerator knowledge:

Corrosivity:	<u>NA</u>	
Ignitability:	<u>NA</u>	
SECTION 9: Gener	ator's Certification	
attached description	is complete and accurate to the	erator knowledge and/or analytical data. I hereby certify that the above best of my knowledge and ability to determine that no deliberate or will known or suspected hazards have been disclosed. I certify that the mate

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer Columnia	Additional Information:
Date: 3-31-08 (Approved) Rejected	#0.22/gd + #70/hr ton
Approval Number: 2680	Place, fl , phenol, toe

<u>S</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
p	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
	ELAGE CHECK THE ALTROIRIATE BOX. IF NO ALTROIRIATE CALEGORY, GO TO THE MEAT TAGE,
<u>Met</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	unics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

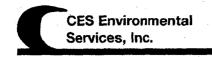
(1)	if the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excalues listed below, the waste should be classified in the metals subcategory.	
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L : 37.5 mg/L	
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper nickel above any of the values listed above, the waste should be classified in the organics subcategory.		
		Metals Subcategory	
		Oils Subcategory	

SECTION 11: Additional Instructions

Organics Subcategory

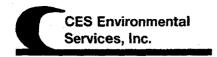
Ø

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



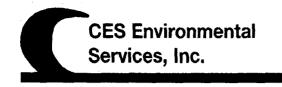
PROCESS FACILITY INFORMATION (CES USE ONLY!!

1.	Base Pricing (including freight):
	0.22/gal, 70/Hz trans,
· · .	and the second of the end of the control of the con
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
	State Loge
4.	Special Testing Requirements:
	flash, pH, phend, TOC, TSS Gel
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):	
	en en egeneral general en	
8.	Management for Product Recovered/Recycled (if applicable);	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear David

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2681

Expiration Date 4/2/2010

Generator: KMTEX

Address:

2450 South Gulfway Drive

Port Arthur, TX 77641

Waste Information

Name of Waste: Fuel oil bottoms **TCEQ Waste Code #: 12006091**

Container Type:

25 yd box

Detailed Description of Process Generating Waste:

Cleaning of tank last containing fuel oil

Color: dark

Odor: slight

pH: 3-11

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

APR-02-2008 13:04

CES ENVIROMENTAL

7137488664 P.002



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 309

ISWR No: 30900

SECTION 1: Genera	ator Information				
Company:	KMTEX		-		
Address:	2450 South Gulfwa	y Drive			
City, State, Zip:	Port Arthur, TX 776	641			
Contact:	Dave Spacek		Title:	Plant Manager	
Phone No:	409-985-4200		Fax No:		
24/hr Phone:	409-985-4200				•
U.S. EPA LD. No:	TXD988076295			۱۸.	
State I.D.	23491		SIC Code:	NA	
SECTION 2: Billing Company: Address:	Information – 🛛 S	ame as Above	-		
City, State, Zip:		Title:			
Phone No:		Fax No:			
- I HOME 140.		1.42.110			
SECTION 3: General	al Description of the	Waste			
Name of Waste: Detailed Description	Fuel Oil Bottoms of Process Generati	ng Waste: <u>cleaning of tank</u>	ast containing	Fuel Oil	
Physical State:	⊠ Liquid □ Solid	Sludge □ Filter Cake □	Powder Combination	n	
Color: <u>Dark</u>	0	dor: <u>Slight</u>	•,		
Specific Gravity (wat	ter=1): <u>1</u>	Density: 8.34 lbs/gal			
Does this material co	ntain any total phen	nolic compounds? 🗌 Yes	⊠ No		٠
Does this material co	ntain any para subs	tituted phenolic compound	s? 🗌 Yes 🛭	No No	
Layers:	Single-phase	Multi-phase			
Container Type: Container Size:	☐ Drum	☐ Tote ☐	Truck	Other (explai	n)
			•		•
Frantianare	Weekly	☐ Monthly 🛛	Quarterly	☐ Yearly	
Frequency:			£		
Number of Units (co		Other:			
Texas State Waste C	ode No:	12006091		_	
Proper U.S. DOT Sh	ipping Name:	Non-RCRA/Non DOT	Regulated Wa	ste Sludge	
Clases	UN/NA	A: 10C	PG:	RQ:	na.
Class:	CIVILL	A: M		W.	<i>V</i> • • • • • • • • • • • • • • • • • • •

P.003

APR-02-2008 13:04

CES ENVIROMENTAL

7137489664

Flash Point >150	рН 3-11	Reactive Sulfides <0.25 mg/l	Reactive Cya <0.25mg/l	anides	Solids 20-30%
Oil&Grease	TOC	Zine	Copper	Nickel	
>1500mg/l	NAmg/I	<u>NA</u> mg/i	NAmg/I	NAmg/	

SECTION 4: Physical and Chemical Data

ELONOUTONO SON BARROLLO	i soneme tom	建酸
The waste consists of the following materials	Ranges are acceptable	ог %
Fuel Oil	2-5	%
Water	70-80	%
Dirt/Rocks/Rust	20-30	%
·		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the haza	rdous waste characteristics, list	ted below, WAS NOT PERFO	ORMED based upon th	e following
generator knowledge:				
· · · · · · · · · · · · · · · · · · ·				
TYT D Matalas				

TCLP Metals:	
TCLP Volatiles:	
TCLP Semi-Volatiles:	•
Reactivity:	
Corrosivity:	
Ignitability:	

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: 4/2/08
Printed Name/Title:	- Plant Manager
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lobbush	
Date: 4-02-08 Approved Rejected	
Approval Number: Z68	

Landfill leachate

Still bottoms

Solvent-bearing wastes

Byproduct waste glycol Wastewater from paint washes

Off-specification organic product

Contaminated groundwater clean-up from non-petroleum sources

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

3

#270 P. 004/010

P.004

From	:	KMT	FX

04/03/2008 02:03

#270 P.005/010

APR-02-2009 13:04

CES ENVIROMENTAL

7137488664

P.005

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$85/yd
	\$450/load trans plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	None
3.	Surcharge Pricing:
	None
4.	Special Testing Requirements:
.	
	Flash, pH
l	
5.	Treatment and Handling Protocol:
ſ	Redirect to Class 1 Sludge landfill
	Reducet to Class 1 bladge tandim
İ	
ι	
5.	Treated Wastewater Discharge Subcategory:
ſ	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);

04/03/2008 02:03

#270 P.006/010

APR-02-2009 13:04

CES ENVIROMENTAL

84/02/2008 10:53

2814764406

MES

7137488664

P.006 PAGE 01/08

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460

fax: (713) 676-1676

Attn:

Ryan Thomas

- CERTIFICATE OF RESULTS -

MES Lab#:

A030669

Client Sample ID:

Waste Water

Extended ID:

PO #0308-108 KMTEX / Port Arthur, TX

Sample Collect Date: 3/25/2008 @ 12:00:00 PM

Sample Type:

Grab

Sample Receipt Data: 3/27/2008 @ 10:15:00 AM

Test Group / Method			•		
TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst HDG Date / Time
Arsenic	0.014	5	< 0.014	mg/L	4/1/2008 / 3:01 PM
Banum	0.0005	100	0.790	mg/L	4/1/2008 / 3:01 PM
Cadmium	0.002	1	0.005	mg/L	4/1/2008 / 3:01 PM
Chromium :	0,002	5	0.048	mg/L	4/1/2008 / 3:01 PM
Lead	0.005	5	0.008	mg/L	4/1/2008 / 3.01 PM
Selenium	0.024	.1	< 0.024	mg/L	4/1/2008 / 3:01 PM
Silver	0.002	5 ;	< 0.002	mg/L	4/1/2008 / 3:01 PM
TCLP Mercury Method: SW-846 7470A	MDL	RI.	Result	Units	Analyst TFR Date / Time
Mercury	0.0004	0.2	< 0.0004	mg/L	4/1/2008 / 7:37 PM
TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst TFR Date / Time
Virtyl chloride	0,10	0.2	< 0.10	mg/L	3/29/2008 / 5:52 AM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	3/29/2008 / 5:52 AM
2-Butanone	0.50	200	< 0,50	mg/L	3/29/2008 / 5:52 AM
Chiaroform	0.05	6	< 0.05	mg/L	3/29/2008 / 5:52 AM
Carbon tetrachloride	0.05	0.5	< 0.05	rng/L	3/29/2008 / 5:52 AM
1,2-Dichloroethane	8.05	0.5	< 0.05	mg/L	3/29/2008 / 5:52 AM
Banzana	0.05	0.5	0.10	mg/L	3/29/2008 / 5:52 AM
Trichloroethene			< 0.05	mg/L	3/29/2008 / 5:52 AM
I lighter to the ligh	0.05	0.5	~ U,U3	myrL	415m2441 -145 100
Tetrachloroethene	0.05 0.05	0.5 0.7	< 0.05 < 0.05	mg/L	3/29/2008 / 5:52 AM
				•	
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	3/29/2008 / 5:52 AM

Report Date: 02-Apr-08

Page 1 of 2

From: KMTEX

04/03/2008 02:03

#270 P.007/010

APR-02-2009 13:04

CES ENVIROMENTAL

04/02/2008 10:53

2814754405

MES.

7137488664

P.007

PAGE 02/08

- CERTIFICATE OF RESULTS -

MES Lab#;

8030669

Client Sample ID:

Waste Water

Extended ID:

PO #0308-108 KMTEX / Port Arthur, TX

Sample Collect Date: 3/25/2008 @ 12:00:00 PM

Sample Type:

Grab

Sample Receipt Date: 3/27/2008 @ 10:15:00 AM

TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL_	Result	Units	Analyst: TFF Date / Time	₹ .
Pyridine	0.05	5	< 0.05	mg/L	4/1/2008 /	12:25 AN
1,4-Dichlorobenzene	0,05	7.5	< 0.05	mg/L	4/1/2008 /	12:25 AN
a Cresol	0.05	200	< 0.05	mg/L	4/1/200R /	12:25 AN
m+p-Cresol	0.05	200	0.73	mg/L	4/1/2008 /	12:25 AN
Hexachloroethane	0.05	3	< 0.05	mg/L	4/1/2006 /	12:25 AM
Nitrobenzene	0.05	2	< 0.05	mg/L	4/1/2008 /	12:25 AN
Hexachlorobutadiene	0.05	0.5	< 0.05	rng/L	4/1/2008 /	12:25 AN
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	4/1/2008 /	12:25 AN
2,4,5-Trichlorophenol	0.05	400	< 0.05	mg/L	4/1/2008 /	12:25 AN
2,4-Dinitrotoluene	0,05	0.13	< 0.05	ուք/L	4/1/2008 /	12:25 AN
Hexachlorobenzene	0,05	0.13	< 0.05	mg/L	4/1/2008 /	12:25 AN
Pentachlorophenoi	0.50	100	< 0.50	mg/L	4/1/2008 /	12:25 AM
Reactivity, Recoverable Hydrog Method: 7.3.3.2	en Cyanide MUL		Result	Units	Analyst: CL Date / Time	
Hydrogen Cyanide	0,25		< 0.25	mg/kg	3/28/2008 /	2:15 PM
Reactivity, Recoverable Hydrog Method: 7.3.4.2	en Sulfide MDL		Result	Units	Analyst CL Date / Time	
Hydragen Sulfide	0.25		< 0.25	mg/kg	3/31/2008 /	9:00 AM
	•				Analyst JE	
Corrosivity: pH Method: SW-846 9045	MDL		Result	Units	Date / Time	
	MDL		Result 10.8	Units		1:45 PM
Method: SW-846 9045	MDL MDL			Units Units	Date / Time	1:45 PM

Flags: N: Exceeds "High Limit"	L: Relow "Low Limit"	RL=regulatory limit	
	•	Wednesday, April 02, 2008	
Holland D. Gilmore, Laboratory	Manager	Date	_

Report Date: 02-Apr-08

Page 2 of 2

04/03/2008 02:04

#270 P. 008/010

APR-02-2008 13:05

CES ENVIROMENTAL

04/02/2009 10:53 2814764406

MES

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P.008 PAGE 03/08

6030669

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES					% REC				
Dibromofluoromethane					98,2				
Toluene-d8							101.1		
4-Bromofluorobenzene				94.0					
SURROGAT	E SPIKE RECO	VERY FOR	SEMIV	OLATI	LES		% REC	<u> </u>	
2-Fluoraphenal							66.2		•
Phenol-d6							65.5		
Nitrobenzeno							61.2		
2-Fluorobiph							50.8		
2,4,6-Tribron			•				71.7		
p-Terphenyl-	d14						86.2		
ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.B
Cadmium	< 0.001		110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71,9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0:0002	102.0			
Selenium	< 0.024	108.1	91.4	16,7	< 0.024	8 7	64,9	61.8	5.0 .
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06
		OTD							
ANALYTE		STD							
Flashpoint		82°F							
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD		····			
pH	7.0	1,99	2.00	0.50					

From: KMTEX

04/03/2008 02:04

#270 P. 009/010

APR-02-2008 13:05 04/02/2008 10:53

CES ENVIROMENTAL

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MES

7137488664

P.009

PAGE 04/08

8030669

MERCURY ENVIRONMENTAL SERVICES **QA/QC REPORT**

ANALYTE

ORIG DUP

mg/kg mg/kg RPD

Reactivity as Hydrogen Sulfide < 0.25 < 0.25 0.00

ANALYTE

ORIG DUP

STD

108

mg/kg mg/kg RPD

%REC

Reactivity as Hydrogen Cyanide < 0.25 < 0.25 0.00

Key to QA Abbreviations

MS=Matrix Spike RPD=Relative Percent Deviation LCS=Laboratory Control Standard CCB=Continuing Calibration Blank MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate MB=Method Blank CCV=Continuing Calibration Verification **%Rec=Percent Recovery** RL=Regulatory Limit

Signature

Holland D. Gilmore / Laboratory Director

uses Environmental Carriage

April 2, 2008



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Hass Dinbali

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2682

Expiration Date 4/3/2010

Generator: Hydril HHP

Address: 18000 Eastex Freeway

Humble, TX 77396

Waste Information

Name of Waste: RCRA empty containers

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

RCRA empty paint cans, punctured aerosol cans, drums, totes, and miscellaneous contain

Color: varies

Odor: none

pH: na

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948



ISWR No: 30900



	Information					
Company:	TO OF COLL A	EIP				٠
Address :	18000 East	ex Freewa	€ 1 y y			
City, State, Zip:	Humble 1	77396	· · · · · · · · · · · · · · · · · · ·			
Contact:	David Bara	<u> </u>	Title :	EHS Manag	ger	
Phone No :	281-985-9	3741	Fax:	281-	985-8600)
24 / HR Phone:	832:21	2-4384			•	
U.S EPA I.D No:	TO 0966	11907				
State I.D :	33785		SIC Code	N/A		
SECTION 2: Billing Info	ormation 56	me as ab	ove			
Company:	·					
Address:				-		
City, State, Zip: Ho	uston IX					
Contact:			Title :			
Phone No :			Fax :			
SECTION 3: General De	escription of the Wast	e				
Name of Waste: RC	RA Empty Container	s				
Detailed Description	of the Process.Ger	nerating Waste:				
RCRA empty paint ca	punctured	•	ellaneous containers			
	^					
Physical State :	🔠 Liquid	Sludge	Powder ■ Powder Powder ■ Powder Powder ■ Powder Powder ■ Powder Powder			
	<u> </u>	<u> </u>	لتنتا			
	Solid	Filter Cake	Combination			
Color:			Combination Odor:		varies	
Color : Specific Gravity (Wa	Solid	Filter Cake			Varies	lbs / gal
Specific Gravity (Wa	Solid	Filter Cake Vareis N/A	Odor : Density :			lbs / gal
Specific Gravity (Wat	Solid ter=1): tain any total phenolic	Filter Cake Vareis N/A compounds?	Odor : Density :	No		lbs / gal
Specific Gravity (Wa	Solid ter=1): tain any total phenolic	Filter Cake Vareis N/A compounds?	Odor : Density :	No		lbs / gal
Specific Gravity (Wat	Solid ter=1): tain any total phenolic	Filter Cake Vareis N/A compounds?	Odor: Density: Yes ↓ No unds? Yes	No		lbs / gal
Specific Gravity (War Does this material cont	Solid ter=1): tain any total phenolic tain any para substitut Single-Phas	Filter Cake Vareis N/A compounds?	Odor: Density: Yes ↓ No unds? Yes		N/A	lbs / gal
Specific Gravity (War Does this material cont Does this material cont Layers:	solid ter=1): tain any total phenolic tain any para substitut Single-Phas Drum	Filter Cake Vareis N/A compounds? ded phenolic compounds Multi-Phase	Odor:Density:Yes			lbs / gal
Specific Gravity (War Does this material conf Does this material conf Layers : Container Type : Container Size :	Solid ter=1): tain any total phenolic tain any para substitut Single-Phas Drum 55 - 350	Filter Cake Vareis N/A compounds? ded phenolic compounds Multi-Phase	Odor:Density:Yes		N/A	lbs / gal
Specific Gravity (Wat Does this material cont Does this material cont Layers : Container Type : Container Size : Number Of Units :	Solid ter=1): tain any total phenolic tain any para substitut Single-Phas Drum 55 - 350 5	Filter Cake Vareis N/A compounds? ed phenolic compounds Multi-Phase Tote	Odor:Density:Yes		N/A	lbs / gal
Specific Gravity (War Does this material conf Does this material conf Layers: Container Type: ✓ Container Size: Number Of Units: Texas State Waste Conf	Solid ter=1): tain any total phenolic tain any para substitut Single-Phas Drum 55 - 350 5 code No	Filter Cake Vareis N/A compounds? ed phenolic compounds Multi-Phase Tote	Odor:Density:Yes	olain)	N/A CY Boxes	
Specific Gravity (Wat Does this material cont Does this material cont Layers : Container Type : Container Size : Number Of Units :	Solid ter=1): tain any total phenolic tain any para substitut Single-Phas Drum 55 - 350 5 code No	Filter Cake Vareis N/A compounds? ed phenolic compounds Multi-Phase Tote Recycle Non-RCRA/	Odor:Density:Yes	olain)	N/A CY Boxes	

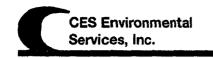
* Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
>200	N/A	0 mg/l	0mg/l	100 %
Oil and Grease	TOC	Zinc	Copper	Nickel
0 mg/l	0mg/l	0 mg/l	0 mg/l	0mg/l

SECTION 4: Physical and Chemical Data

GOMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units
Metal Cans	0-100	%
Plastic Containers	0-100	%
Cardboard Containers	0-100	%
Cardboard Containers	0-100	

			0.1
	Metal Cans	0-100	%
	Plastic Containers	0-100	%
	Cardboard Containers	0-100	%
ECTION 5: Safety Relate	d Data		
f the handling of this v None	vaste requires the use of special protective equip	ment, please explain.	
SECTION 6: Attached Sup	pporting Documents		
List all documents, not None	tes, data, and/or analysis attached to this form as	part of the waste approval package).
SECTION 7: Incompatibili	ties		
Please list all incompa	tibilities (if any):		
•	, •		
None SECTION 8: Generator's M	(nowledge Documentation	r. WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's M Laboratory analysis of	(nowledge Documentation the hazardous waste characteristics, listed below	r, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's M -aboratory analysis of following generators k	(nowledge Documentation the hazardous waste characteristics, listed below	r, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's Management Laboratory analysis of following generators kn ICLP Metals:	(nowledge Documentation the hazardous waste characteristics, listed below nowledge	r, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's Manaboratory analysis of collowing generators knockets CCLP Metals:	(nowledge Documentation the hazardous waste characteristics, listed below nowledge Containers are RCRA Empty	r, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's Mahaboratory analysis of following generators Matchine (SCLP Metals): ICLP Wolatilies: ICLP Semi-Volatiles:	Cnowledge Documentation the hazardous waste characteristics, listed below nowledge <u>Containers are RCRA Empty</u> <u>Containers are RCRA Empty</u>	, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's Management of Section 8: Generator's Management of Section 8: Following generators Management of Section 8: Following Section 8: Reactivity :	Inowledge Documentation the hazardous waste characteristics, listed below nowledge Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty	r, WAS NOT PERFORMED based up	oon the
None SECTION 8: Generator's Management of Section 8: Generator's Management of Section 8: FCLP Metals : FCLP Volatilies : FCLP Semi-Volatiles : Reactivity : Corrosivity :	Knowledge Documentation the hazardous waste characteristics, listed below nowledge Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty	, WAS NOT PERFORMED based up	oon the
SECTION 8: Generator's Malaboratory analysis of following generators known and the second section of the second se	Knowledge Documentation the hazardous waste characteristics, listed below nowledge Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty	r, WAS NOT PERFORMED based up	oon the
SECTION 8: Generator's Malaboratory analysis of following generators known and the following generators known and the following generators: TCLP Volatilies: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability: SECTION 9: Generator's Companies of the information contains above and attached decideliberate or willful om	Knowledge Documentation the hazardous waste characteristics, listed below nowledge Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty Containers are RCRA Empty	and/or ☐ analytical data. I hereb my knowledge and ability to determ all known or suspected hazards ha	y cerity that th nine that no ve been
None SECTION 8: Generator's Management of Section 8: Generator's Management of Section 8: Generators of Section 8: Generator's Corrosivity: SECTION 9: Generator's Corrosivity: Generator's Corrosivit	Cnowledge Documentation The hazardous waste characteristics, listed below nowledge Containers are RCRA Empty Containers are R	and/or ☐ analytical data. I hereb my knowledge and ability to determ all known or suspected hazards ha	y cerity that th nine that no ve been

CES USE ONLY (DO I Compliance Officer Date: 4-3-0			
Approval Number:	28 2682		
		2	



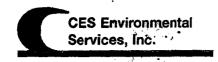
and the second

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

ı.	Base Pricing (including freight):
	\$10/drum, \$100/tote
	,
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
i	
4.	Special Testing Requirements:
Ì	
5.	Treatment and Handling Protocol:
	Wish & vense if possible, If not, shred and
ļ	ricycle
5.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C
	and the second of the second o

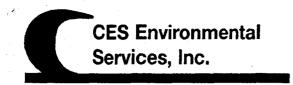
 $E_{\rm MAR}^{\frac{1}{2}\frac{2}{2}}$

1 32.6



PROCESS FACILITY INFORMATION (CES_USE ONLY!!

7.	Tests for Product Recovered/Recycled (if applicable):
3.	Management for Product Recovered/Recycled (if applicable):
3.	Management for Product Recovered/Recycled (if applicable);
3.	Management for Product Recovered/Recycled (if applicable);
3.	Management for Product Recovered/Recycled (if applicable);
3.	Management for Product Recovered/Recycled (if applicable);



Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Sam Atkinson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2683

Expiration Date 4/3/2010

Generator: Trimac (Beaumont)

Address: 5055 Washington Blvd

Beaumont, TX 77707

Waste Information

Name of Waste: Non hazardous fatty acid solids

TCEQ Waste Code #: 21064031

Container Type:

Detailed Description of Process Generating Waste:

Removal of heel from RCRA empty tank trailer prior to cleaning.

Color: white to yellow Odor: alcohol pH: na

Physical State:

Incompatibilities: reactive with oxidizing agents, slightly reactive with acids

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road

Phone: (713) 676-1460

4904 Griggs Road Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

an arrant - 6			
SECTION 1: General			
Company:	Trimac Transporation (Beaumont) 5055 Washington Blvd		
Address:		·	
City, State, Zip:	Beaumont, TX 77707	TP41	
Contact:	Brain Apfel	_ Title:	(400) 942 4717
Phone No:	(409) 842-1510	_ Fax No:	(409) 842-4717
24/hr Phone:	409-363-3389	-	
U.S. EPA I.D. No:	NA 32313	- 0.0 0.4	NTA
State I.D.	32313	SIC Code:	NA
Company:	Information – 🛛 Same as Above		
City, State, Zip:			
Contact:	Title:		
Phone No:	Fax No:		
SECTION 3: General	al Description of the Waste		
	Hazardous Fatty Acid Solids of Process Generating Waste: Removal of heel	from RCRA er	npty tank trailer prior to cleaning
Physical Cintor	□ Liquid □ Studes □	Powder	
Physical State:	Liquid Sludge		
	Solid 🗌 Filter Cake	☐ Combination	n
Color: white to yellow	y Odor: alcohol		
Specific Gravity (was	ter=1): <u>1.1</u> Density: <u>8.4</u> lbs/gal		
Does this material co	ntain any total phenolic compounds? Yes	⊠ No	
Does this material co	ntain any para substituted phenolic compound	s? 🗌 Yes 🛭	☑ No
Layers:	⊠ Single-phase ☐ Multi-phase		
Container Type:	☐ Drum ☐ Tote ☐	Truck	Other (explain)
Container Size:	55 gal		
Container Spec.	<u></u>		
•			<u></u>
Frequency:	☐ Weekly ☐ Monthly ☒	Quarterly	Yearly
Number of Units (con	ntainers): 5 Other:		
Texas State Waste C	AND LOOK		
	<u> </u>	Deciler 43 for	1
Proper U.S. DOT Shi	ipping Name: Non RCRA Non DOT	Regulated Mat	cust
Class: NA	UN/NA: NA	PG: NA	RO: NA

Flash Point NA	pH NA	Reactive Sulfides Omg/l	Reactive Cy	yanides	Solids 100%
Oil&Grease <1000mg/I	TOC name/l	Zinc () mg/l	Copper Omg/l	Nickel Omg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS FAILUR The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
ARQUAD M2HTB SCP2 E	100	%	
711Q07D 1021110 007 2 2		 ``	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

reactive with oxidizing agents, slightly reactive with acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: 2
TCLP Volatiles: 2
TCLP Semi-Volatiles: 2
Reactivity: 2
Corrosivity: 2

Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Brein Offel	Date: 4-01-2008
Printed Name/Title: Brian Apfel	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lobby May A	
Date: 4-3-08 Approved Rejected	
~7 / G 7	
Approval Number: 2683	

<u>S)</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 4	137		
Is	this material a wastewater or wastewater sludge? YES	⊠ NO		
If	'Yes', complete this section.			
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRLATE CATEGORY,	GO TO THE N	EXT PAGE.
Met	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equip	·	ng operations	
<u>Oils</u>	Subcategory: Subpart B			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sou Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	irces		

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excevalues listed below, the waste should be classified in the metals subcategory.	es:
		ium: 0.2 mg/L	
		nium: 8.9 mg/L	
		er: 4.9 mg/L	
	Nicke	l: 37.5 mg/L	
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, above any of the values listed above, the waste should be classified in the organics subcategory.	0)
		Mctals Subcategory	
	\Box	Oils Subcategory	
		Organics Subcategory	

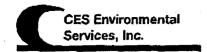
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$65.00/drum
2.	Contamination Limits (maximum limit before surcharges apply):
	None
3.	Surcharge Pricing:
	None
4.	
	No free liquids can be present. No wash or rinse nature of any volume of this material can go to the worts.
	volume of this material can go to the worts.
5.	Treatment and Handling Protocol:
	ABSOLUTELY NO FREE LIQUIDS ALLOWED!!!! Put in Class I solids box.
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Page: 1/7



Material Safety Data Sheet

MSDS# 15-04302

Section 1. Chemical Product and Company Identification

Product name

ARQUAD® M2HTB SCP2 E

Material Uses

: Surfactant.

Supplier/ Manufacturer AKZO NOBEL SURFACE CHEMISTRY LLC

525 West Van Buren Chicago, IL 60607-3823

www.surfactants.akzonobel.com

AKZO NOBEL CHEMICALS LTD. 1 City Centre Drive, Suite 318 Mississauga, Ontario L5B 1M2

Canada

In Case of Emergency

CHEMTREC: CANUTEC: Medical/Handling: 800-424-9300 613-996-6666 914-693-6946

Product/Technical:

800-906-9977

Section 2. Hazards Identification

Physical State

Liauid.

Color

White to yellowish.

Odor

Alcohol like.

Emergency Overview

DANGER!

CAUSES EYE BURNS.

CONTAINS ETHANOL A MATERIAL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL

DATA.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: EYE, LENS

OR CORNEA.

FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL TO AQUATIC ORGANISMS.

MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

TOXIC TO FISH. TOXIC TO AQUATIC ORGANISIMS, DO NOT RELEASE TO WATER.

Keep away from heat, sparks and flame. Do not get in eyes. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.

Possible Carcinogenic Effects

Quaternary ammonium compounds, benzylbis(hydrogenated tallow: IARC, NTP, OSHA, ACGIH:

Not listed.

Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl: ACGIH IARC Not

listed. NTP = No Evidence. OSHA = None.
Ethanol: ACGIH A4; IARC NTP OSHA Not listed.
Isopropanol: IARC 3; ACGIH NTP OSHA Not listed.
Water: IARC, NTP, OSHA, ACGIH: Not listed.

Amines, bis(hydrogenated tallow alkyl)methyl: IARC, NTP, OSHA, ACGIH: Not listed.

Routes of Entry

Absorbed through skin. Eye contact.

See Toxicological Information (section 11)

Page: 2/7

Section 3. Composition/Information on Ingredients

Name CA	\S#	% by Weight
Quatemary ammonium compounds, benzylbis(hydrogenated tallow	61789-73-9	45-85
Quaternary ammonium compounds, bls(hydrogenated tallow alkyl)dimethyl	61789-80-8	0-25
Ethanol	64-17-5	10-30
Isopropanol	67-63-0	0-5
Water	7732-18-5	0-10
Amines, bis(hydrogenated tallow alkyl)methyl	61788-63-4	0- 5

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Medical Conditions Aggravated by Overexposure	Repeated or prolonged exposure is not known to aggravate medical condition.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-Ignition Temperature	The lowest known value is 421°C (789.8°F) (Ethanol).
Flash Points	Closed cup: 35.6°C (96.1°E). (Pensky-Martens.)
Flammable Limits	The greatest known range is LOWER: 3.3% UPPER: 19% (Ethanol)
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂).
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks and static discharge, of heat.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire	Take precautionary measures against static discharges. No sparking tools should be used.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

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Other Special Considerations

Section 7. Handling and Storage

Handling

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lightling and material handling) equipment.

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or

Section 8. Exposure Controls/ Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes

Splash goggles.

Body

Lab coat.

Respiratory

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate

respirator when ventilation is inadequate.

Hands

Feet

Not applicable.

Protective Clothing (Pictograms)









Personal Protection in Case of a Large Spill

Splash goggles, Full suit, Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Ingredient Name

Isopropanol

Quaternary ammonium compounds, benzylbis(hydrogenated tailow Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl **Ethanol**

Exposure Limits United States

Not available.

Not available.

ACGIH (United States, 1996).

TWA: 1880 mg/m3 8 hour(s). Form:

TWA: 1000 ppm 8 hour(s). Form:

NIOSH REL (United States, 1994). TWA: 1900 mg/m3 10 hour(s). Form:

TWA: 1000 ppm 10 hour(s). Form:

OSHA Final Rule (United States, 1989).

TWA: 1900 mg/m3 8 hour(s). Form:

TWA: 1000 ppm 8 hour(s). Form:

ACGIH TLV (United States, 2004). Notes: ACGIH 2003 Adoption Refers to

Appendix A -- Carcinogens.

STEL: 400 ppm 15 minute(s). Form: All forms

TWA: 200 ppm 8 hour(s). Form: All forms

NIOSH REL (United States, 2001).

STEL: 1225 mg/m³ 15 minute(s). Form: All forms

STEL: 500 ppm 15 minute(s). Form: All forms

TWA: 980 mg/m3 10 hour(s). Form: All forms TWA: 400 ppm 10 hour(s). Form: All forms

OSHA PEL (United States, 1993).

Page: 4/7

TWA: 980 mg/m3 8 hour(s), Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms OSHA PEL 1989 (United States, 1989).

STEL: 1225 mg/m3 15 minute(s). Form: All forms STEL: 500 ppm 15 minute(s). Form: All forms TWA: 980 mg/m³ 8 hour(s), Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms

Not available. Not available.

Amines, bis(hydrogenated tallow

alkyl)methyl

Section 9. Physical and Chemical Properties

Physical State

Liquid,

Color

White to yellowish.

Odor

Alcohol like.

рΗ

6 to 9 [Basic.]

Boiling/Condensation

Not determined.

Point

Melting/Freezing Point

Not determined.

Density

Not determined.

Vapor Pressure

Not determined.

Vapor Density Solubility

Comments

Not determined. Easily soluble in hot water, methanol, acetone.

Partially soluble in cold water.

Dispersion Properties

See solubility in water, methanol, acetone.

Physical Chemical

Viscosity = 55cp @ 60C; 50cp @ 66C. (Quaternary ammonium compounds, bis(hydrogenated tallow

alkyl)dimethyl)

Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Will not occur.

Incompatibility with Various Substances Reactive with OXIDIZING AGENTS. Slightly reactive to reactive with acids.

Hazardous

Polymerization

Section 11. Toxicological Information

Toxicity to Animals Ingredient Name or Product name	Tøst	Result	Route	Species	
Quaternary ammonium compounds, benzylbis(hydrogenated tailow	LO50	>2000 mg/kg	Oral	Rat	
Quaternary ammonium compounds,	LD50	>5000 mg/kg	Oral	Rat	
bis(hydrogenated tallow alkyl)dimethyl	LC50	>180 mg/l (1 hour(s))	Inhalation	Rat	
Ethanol	LD50	3450 mg/kg	Oral	Mouse	
	LD50	7060 mg/kg	Oral	Rat	
	LD50	6300 mg/kg	Oral	Rabbit	
÷	LC50	20000 ppm (10 hour(s))	Inhalation	Rat	
Isopropanol	LD50	4710 mg/kg	Oral	Rat	
,	LD50	6410 mg/kg	Oral	Rabbit	
	LD50	3600 mg/kg	Orai	Mouse	
	LD50	12800 mg/kg	Dermal	Rabbit	
	LDLo	1537 mg/kg	Oral	Dog	
	LDLo	3570 mg/kg	Oral	human	
	LDLo	5272 mg/kg	Oral	man	
	LC50	12000 ppm (8 hour(s))	Inhalation	Rat	

ARQUAD® M2HTB SCP2 E				Page: 5/7
·	LC50	16970 ppm (4 hour(s))	Inhalation	Rat
Amines, bis(hydrogenated tallow	LD50	>5000 mg/kg	Oral	Rat based on data for:

Chronic Effects on Humans

CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH [Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl]. Classified None. by NIOSH [Ethanol]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. Classified None. by NIOSH [Isopropanol]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropanol].

MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast. [Isopropanol].

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive

system/toxin/male [SUSPECTED] [Ethanol].

Contains material which causes damage to the following organs: eye, lens or comea.

Contains material which may cause damage to the following organs: blood, the reproductive system,

liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS).

Acute Effects Skin

Slightly irritating to the skin. Practically non-toxic in contact with skin,

Acute Effects Eyes

Corrosive to the eyes.

Special Remarks on Other Toxic Effects on

Other Toxic Effects on Humans

Amines, bis(hydrogenated tailow alkyl)methyl: Skin and Eyes and Sensitization based on data

for: (similar material)

Section 12. Ecological Information

Ecotoxicity Ingredient Name or Product name	Species	Period	Result
Quaternary ammonium compounds,	Fish (LC50)	96 hour(s)	1.33 mg/l
bis(hydrogenated tallow alkyl)dimethyl	Trout (LC50)	96 hour(s)	4.22 mg/l
	Algae. (EC50)	96 hour(s)	0.21 mg/l
Isopropanol	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
,	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
Amines, bis(hydrogenated tallow alkyl)methyl	Algae. based on data for: (similar material) (EC50)	72 hour(s)	0.12 mg/l
	Algae, based on data for: (similar material) (EC50)	72 hour(s)	0.05 mg/l

Biodegradability and Ecotoxicity Remarks

Quaternary ammonium compounds, benzylbis(hydrogenated tallow: 3% @ 28 day(s) CBT Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl: 68% @ 287 day(s)

CBT

Amines, bis(hydrogenated tallow alkyl)methyl: 86% @ 14 day(s) CBT

Products of Degradation

These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO_{2...)}.

Section 13. Disposal Considerations

Waste Information
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

RCRA Classification

D001 Ignitable Waste

Consult your local or regional authorities.

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Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	UN1993	Flammable liquids, n.o.s. (Ethanol, Isopropanol)	3	. 111		-
TDG Classification	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol, isopropanol)	3	III		-
IMDG Class	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol, isopropanol)	3	III	*	-
IATA-DGR Class	UN1993	Flammable liquid, n.o.s. (Ethanol, Isopropanol)	3	M		-

Section 15. Regulatory Information

HCS Classification

Flammable liquid Target organ effects Corrosive Material

U.S. Federal Regulations

TSCA: All intentionally present components are listed on the TSCA inventory.

DSL: All intentionally present components are listed on the DSL. CERCLA: Hazardous substances.: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found, SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: ARQUAD® M2HTB SCP2 E

SARA 311/312 MSDS distribution - chemical inventory - hazard identification; ARQUAD® M2HTB SCP2 E: Fire Hazard, immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 Form R Reporting Requirements

No products were found.

SARA 313 Supplier Notification No products were found.

State Regulations

Pennsylvania RTK: Ethanol: (generic environmental hazard); Isopropanol: (environmental hazard,

generic environmental hazard)

Massachusetts RTK: Ethanol; Isopropanol New Jersey: Ethanol; Isopropanol

California prop. 65: No products were found.

WHMIS (Canada)

Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

Class D-2A: Material causing other toxic effects (VERY TOXIC). Class D-2B: Material causing other toxic effects (TOXIC).

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CEPA DSL: Quaternary ammonium compounds, benzylbis(hydrogenated tallow; Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl; Ethanol; Isopropanol; Water, Amines, bis(hydrogenated tallow alkyl)methyl

European Union

Component	EC Number	EC Status	EC Annex
Quaternary ammonium compounds, benzylbis(hydrogenated tallow	263-082-9	Not available.	Not available.
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethy	263-090-2 /I	Not available.	Not available.
Ethanol	200-578-6	Not available.	603-002-00-5
Isopropanol	200-661-7	Not available.	603-117-00-0
Water	231-791-2	Not available.	Not available.
Amines, bis(hydrogenated tallow allow)	262-991-8	Not available.	Not available.

Other International Lists

Australia (NICNAS): Quaternary ammonium compounds, benzylbis(hydrogenated tallow; Quaternary ammonlum compounds, bis(hydrogenated tallow alkyl)dimethyl; Ethanol; Isopropanol; Water; Amines, bis(hydrogenated tallow alkyl)methyl

China: Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl; Isopropanol; Water

Germany water class: [sopropano]

Japan (MITI): Ethanol; Isopropanol; Amines, bis(hydrogenated tallow alkyl)methyl

Japan (MOL): Isopropanol

Korea (TCCL): Quaternary ammonium compounds, benzylbis(hydrogenated tallow; Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl; Ethanol, Isopropanol; Water, Amines, bis(hydrogenated tailow alkyl)methyl

Philippines (RA6969): Quaternary ammonium compounds, benzylbis(hydrogenated tallow; Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl; Ethanol; Isopropanol; Water, Amines, bis(hydrogenated tallow alkyl)methyl

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Other Information Arquad® is a registered trademark of Akzo Nobel or affiliated companies and is registered in one or more countries including the United States.

Validation Date

5/11/2005.

Validated by

Product Safety Specialist

Previous Validation Date No Previous Validation.

Print Date Phone Number 6/8/2007. 312-544-7038

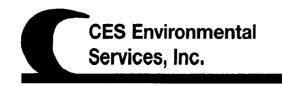
Notice to Reader

The information in the material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions or as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained horoin supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current.

4904 Griggs Road Houston TX 77021

Tel. (713) 676-1460

Fax. (713) 676-1460



Waste Pre-Acceptance/Approval Letter

Date 4/1/2008

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2684

Expiration Date 4/4/2010

Generator: Enterprise Products Operating, L.P.

Address: 10207 FM 1942, Attn: Rachel Wheaton

Mont Belvieu, TX 77580

Waste Information

Name of Waste: Hydrostatic pipeline waters

TCEQ Waste Code #: 00201011

Container Type:

Detailed Description of Process Generating Waste:

Hydrostatic pipeline waters

Color: clear to rusty

Odor: slight hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener Company:	ator Information Enterprise Products Operating, L.P.				
Address:	P.O. Box 573				
City, State, Zip:	Mont Belvieu, Texas 77580				H
Contact:	Edward Laszcz	Title:	ENvironmental		
Phone No:	281-385-4300	Fax No:	281-385-4532		
24/hr Phone:	832-584-4995				113
U.S. EPA I.D. No:	TXT490013455				
State I.D.	31038	SIC Code:	5171		Ħ
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛛 Same as Above				
Contact:	Title:				
Phone No:	Fax N				ü
Phone No:	rax N				
					10
SECTION 3: Gener	al Description of the Waste				
				na (1 maga 1 br>Tang Maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1 maga 1	
	lrostatic pipeline waters				ú
Detailed Description	of Process Generating Waste: Hydrostatic	c pipeleine waters			
Physical State:	☑ Liquid☐ Sludge☐ Filter Cake	☐ Powder ☐ Combination	ı		
Color: clear to rusty	Odor: slight hydrocarbo	n	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Formatted	
Color v <u>elega to tubej</u>	· Single Hydrocaro				••••
Specific Gravity (wa	· · · · · · · · · · · · · · · · · · ·				
Specific Gravity (wa	· · · · · · · · · · · · · · · · · · ·	bs/gal			
Specific Gravity (wa	ter=1): 1 Density: 8.34 ntain any total phenolic compounds?	bs/gal Yes 🛭 No	l No		
Specific Gravity (wa	ter=1): <u>1</u> Density: <u>8.34</u>	bs/gal Yes 🛭 No] No		
Specific Gravity (wa	ter=1): 1 Density: 8.34 ntain any total phenolic compounds?	bs/gal Yes ⊠ No ounds? □ Yes ⊠] No		
Specific Gravity (was Does this material co Does this material co Layers: Container Type:	ter=1): 1 Density: 8.34 ntain any total phenolic compounds? ntain any para substituted phenolic comp	bs/gal Yes ⊠ No ounds? □ Yes ⊠ se □ ☑ Truck	No □ Other (explain)		
Specific Gravity (wa Does this material co Layers:	ter=1): 1 Density: 8.34 ntain any total phenolic compounds? ntain any para substituted phenolic comp Single-phase Multi-phase	bs/gal Yes ⊠ No ounds? □ Yes ⊠ se	_		
Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size: Frequency:	ter=1): 1 Density: 8.34 ntain any total phenolic compounds?	bs/gal Yes ⊠ No ounds? □ Yes ⊠ se □ ☑ Truck	_		
Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size: Frequency:	ter=1): 1 Density: 8.34 ntain any total phenolic compounds?	bs/gal Yes	Other (explain)		
Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size: Frequency: Number of Units (co	ter=1): 1 Density: 8.34 ntain any total phenolic compounds?	bs/gal Yes	☐ Other (explain) ————————————————————————————————————		
Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size: Frequency: Number of Units (co) Texas State Waste C	ter=1): 1 Density: 8.34 ntain any total phenolic compounds? ntain any para substituted phenolic comp Single-phase	bs/gal Yes	Other (explain) Yearly e waters		

	· · · · · · · · · · · · · · · · · · ·					- · · · · · · · · · · · · · · · · · · ·
Flash Point greater than 200F	рH	Reactive Sulfides	Reactive Cyanid		Solids] ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Oil&Grease	3 to 11 TOC	less than 20mg/l	less than 20mg/	Nickel	0-10%	
less than 100mg/l	less than 1200mg		NA mg/I	NA mg	Л	
				1		
SECTION 4. Physic	cal and Chemical Da	ta				and the control of th
DEGITOR V. THYSK				har made and an empression was	300000	
The	GOMERONE NO.			centratio are accep		
Water		tono mile in account	90 -99	aro accop	10.0	The state of the s
organics		:_:_:_	0-10			
oils			0-1			The state of the s
dolids (rust, sand, e	tc)		0-10			and and the second of the second
· · · · · · · · · · · · · · · · · · ·						
			-			a contract and the state of the
L			······································			The second secon
SECTION 5: Safety	Related Data					
				la.i		
Level D	s waste requires the	use or special protectiv	e equipment, please expl	aid.		and the property of the second
35131.35						
SECTION 6: Attach	ed Supporting Docu	ments				rainera carrollering chinicira ciri
List all documents, n	otes, data, and/or an	alysis attached to this	form as part of the waste	approva	package.	
- anal	Tire!					
SECTION 7: Incom	hatibilities					
·						in a continuous of the mean and
Please list all incomp	atibilities (if any):					
CONTRACTOR OF THE PROPERTY OF						
SECTION 8: General	ator's Knowledge Do	cumentation				The second of th
						· · · · · · · · · · · · · · · · · · ·
Laboratory analysis generator knowledge		ste characteristics, liste	ed below, WAS NOT PE	RFORME	D based upon the following	
Renerator strowlenge	•					and the first of the state of t
TCLP Metals:	<u>x</u>					
TCLP Volatiles:	<u>X</u>					
TCLP Semi-Volatiles Reactivity:	:: <u>X</u> X					
Corrosivity:	X					
Ignitability:	<u>x</u>					
SECTION 9: Genera	-4la Cartification	_	/			
						and including the contraction of the specific and in-
The information conta	ined herein is based of	on Ly generator knowled	age and/or [v] analytical o	lata. I he	reby certify that the above and that no deliberate or willfi	id
omissions of composit	s complete and accur tion properties exist a	and that all known or su	ispected hazards have bee	n disclose	d. I certify that the material	uls
		cribed by this document.			•	en en en en en en en en en en en en en e
		~~ /	9 -4	. C ab	00 0000	
Authorized Signature		1	Date	:: <u>rebrua</u>	ry 20, 2008	and the state of t
Printed Name/Title:	Ed	ward C. Laszcz			_	and the state of t
CES USE ONLY (DO NO	WRITE IN THIS SPAC	CE)				
Compliance Officer:	La Sula in the	toos d				
•	//	1				
Date: 4-4-08	/Appro	oved Rejected				
	,	/				(

C.E.	CTION 10: Waste Receipt Classification Under 40 CFR 437	
Is	this material a wastewater or wastewater sludge? 🗹 YES 💮 NO	
If '	Yes', complete this section.	
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.	
Mata	In Subantananu, Subanant A	
Meta	is Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges	
H	Chromate wastes	
	Air pollution control blow down water and sludges	
	Spent anodizing solutions	
H	Incineration wastewaters Waste liquid mercury	
	Cyanide-containing wastes greater than 136 mg/l	
	Waste acids and bases with or without metals	
H	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater	
	Alkaline and acid solutions used to clean metal parts or equipment	
Ous.	Subcategory: Subpart B	
	Used oils	
	Oil-water emulsions or mixtures	
H	Lubricants Coolants	
	Contaminated groundwater clean-up from petroleum sources	
	Used petroleum products	
H	Oil spill clean-up Bilge water	
\boxtimes	Rinse/wash waters from petroleum sources	
	Interceptor wastes	
H	Off-specification fuels Underground storage remediation waste	
Ħ	Tank clean-out from petroleum or oily sources	
	Non-contact used glycols	
H	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
	Wastewards from our bearing paint wasness	
<u>Orga</u>	nics Subcategory: Subpart C	
	Landfill leachate	
	Contaminated groundwater clean-up from non-petroleum sources	
	Solvent-bearing wastes	
H	Off-specification organic product Still bottoms	
Ħ	Byproduct waste glycol	
	Wastewater from paint washes	
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations	
\Box	Tank clean-out from organic, non-petroleum sources	

(1)	If the waste contains oil and grease	at or in excess of 100 mg/L	the waste should be classified	in the oils subcategory
111	II the waste comains on and grease	at of the excess of 100 mg/L	. HIE WASIE SHOULD DE CLASSITIE	i ili ilie olis sudcalegoi v.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory
Organics Subcategory

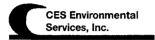
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Base Pricing (including freight): #70.12 Igne or #85/yd (if studge) #70/hr +
	#70/hr then
	75/hr DIR MACHINE
2.	Contamination Limits (maximum limit before surcharges apply):
۷.	,
	Standord
3.	Surcharge Pricing:
	general rates
4.	Special Testing Requirements:
	Flack, py, Toc, Phonol, % solids, metals
	, , , , , , , , , , , , , , , , , , , ,
5.	Treatment and Handling Protocol:
5 .	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A Subcategory B ☐ Subcategory C
-	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable):

Laboratory Analysis Report

Job ID: 97436



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project ID:

Report To:

Client Name:

Enterprise Products

Edward Laszcz

Client Address: P. O. Box 573

City, State, Zip: Mont Belvieu, Texas, 77580

P.O.#.:

Total Number of Pages:

Sample Collected By:

Date Collected: 03/27/08

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Frac Tank

Sludge

97436.01

Dumpster Pias & Solids

Soil

97436.02

Sonia West

Released By: Sonia West

Title:

Senior Project Manager

Date:

03/31/2008



This Laboratory is NELAP (T104704213-07-TX) accredited. Effective: 07/01/07; Expires: 06/30/08

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Page 1 of 1

Date Received: 03/27/2008 14:30

LABORATORY TEST RESULTS

Job ID:

97436

Attn: Edward Laszcz

Date 3/31/2008

Client Name:

Project ID:

Client Sample ID; Frac Tank
Date Collected: 03/27/08
Time Collected:
Other Information:

Job Sample ID: 97436.01

Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)							
	Ignitability	>150	°F	1			03/31/08 10:00	SG
SW-846 7.3	Reactivity							
	Reactive Cyanide	BRL	mg/Kg	1	25		03/28/08 08:20	KS
SW-846 7.3	Reactivity							
	Reactive Sulfide	BRL	mg/Kg	1	25		03/28/08 08:20	KS
SW-846 8021B	TCLP BTEX & MTBE							
	Benzene	0.041	mg/L	1	0.002	0.5	03/28/08 10:38	WS
	Trifluorotoluene(surr)	99	%	1	75-125		03/28/08 10:38	WS
SW-846 9045D	Corrosivity, pH							
The first of the second of the second of	pH	8.80	s.u.			e sousses south thether the	03/28/08 11:00	SG

This waste stream

LABORATORY TEST RESULTS

Job ID:

97436

Date 3/31/2008

Client Name: Enterprise Products

Project ID:

Attn: Edward Laszcz

Client Sample ID: Dumpster Pigs & Solids
Date Gollected: 03/27/08
Time Collected:

Other Information:

Job Sample ID:	97436.02
Sample Matrix	Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Lim	it Reg Limit Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)							
	Ignitability	135	°F	1			03/31/08 10:00	SG
SW-846 7.3	Reactivity							
	Reactive Cyanide	BRL	mg/Kg	1	25		03/28/08 08:20	KS
SW-846 7.3	Reactivity							
	Reactive Sulfide	BRL	mg/Kg	1	25		03/28/08 08:20	KS
SW-846 8021B	TCLP BTEX & MTBE							
	Benzene	0.017	mg/L	1	0.002	0.5	03/28/08 11:03	WS
	Trifluorotoluene(surr)	97	%	1	75-125		03/28/08 11:03	WS
SW-846 9045D	Corrosivity, pH							
to president county builds presented to	pH	9.50	s.u.		un separat de la Siste de Madida de la Companio de la Companio de la Companio de la Companio de la Companio de	neren erre en en er en en en en en en en en en en en en en	03/28/08 11:00	SG

not a post of this waste stream

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Qual

Analysis : Corrosivity, pH

Method:

SW-846 9045D

Reporting Units: s.u.

QC Batch ID: Qb08032801

Created Date : 03/28/08

97436.01,02

Created By : Sgarcia

Samples in This QC Batch:

QC Type: Duplicate

Parameter

рН

QC Sample ID: 97436.01

QCSample Sample Result

8.81

Result 8.80

Units s.u. 0.11

RPD **RPD**

CtrlLimit

QC Type: LCS and LCSD					
	QC Type:	LCS	an	ıd L	.CSD

	LCS	LCS	LCSD	LCSD		RPD		
Parameter	Assigned	Result	Assigned	Result	RPD	CtrlLimit	Tolerance	Qual
рH	4.00	4.01					3.95-4.05	

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Analysis: Reactivity

Method:

SW-846 7.3

Reporting Units: mg/Kg

QC Batch ID: Qb08032824

Created Date: 03/28/08

Created By: Ksudha

Samples in This QC Batch: 97436.01,02

Sample Preparation: PB08032815

Prep Method: SW-846 7.3

Prep Date: 03/28/08 08:15 Prep By:

Ksudha

QC Type: Method Blank					
Parameter	CAS#	Result	Units	D.F. RptLimit	Qual
Reactive Sulfide		BRL	mg/Kg	1 25	

QC Type: Duplicate						
QC Sample ID: 97394.01						
- 1 Bark and the control of the con	Sample Samp Result Resu	Agreement to a common that is a	RPD	RPD CtrlLimit		Qual
Reactive Sulfide	BRL BRI	mg/Kg		20		

QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Reactive Sulfide	1000	1000	100	1000	1000	100	0	20	40-120	

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Analysis: Reactivity

Method:

SW-846 7.3

Reporting Units: mg/Kg

QC Batch ID: Qb08032825

Created Date: 03/28/08

Created By: Ksudha

Samples in This QC Batch: 97436.01,02

Sample Preparation: PB08032818

Prep Method: SW-846 7.3

.....

Prep Date: 03/28/08 08:15 Prep By: k

Ksudha

QC Type: Method Blank	TONE 2007 - 11 11 12 12 12 12 12 12 12 12 12 12 12	
Parameter CAS #	Result Units D.F.	RptLimit Qual
Reactive Cyanide	BRL mg/Kg 1	25

QC Type: Duplicate										
QC Sample ID: 97394	.01									
	QCSample	Sample			RPD					
Parameter	Result	Result	Units	RPD	CtrlLimit		a de la principalità de la compansione de la compansione de la compansione de la compansione de la compansione	3 g (4 , 34)	4 - 4 14 1	Qual
Reactive Cyanide	BRL	BRL	mg/Kg		20					

										No. Control
QC Type: LCS and LCSI								tinal engelsee Mi		
QC Type: LC3 and LC3			32 1 1 1 1 1 1 1 1 1 1 1		도 노랫동안 함					
	r Markey and the	Lafaguage Sill	100 8400		Na walio wa					
	LCS	LCS	LCS	LCSD	LCSD	LCSD	4 J. Fall 1997	RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Quai
Reactive Cyanide	5.0	2.25	45	5.0	2.38	47.6	5.62	20	40-120	

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Analysis: TCLP BTEX & MTBE

Method:

SW-846 8021B

Reporting Units:

mg/L

QC Batch ID: Qb08032833

Created Date: 03/28/08

Created By: Dshen

Samples in This QC Batch: 97436.01,02

Sample Preparation :

PB08032820

Prep Method: SW-846 1311

Prep Date: 03/28/08 09:00 **Prep By:**

Dshen

TCLP Prep:

PB08032802

Prep Method: SW-846 1311

Prep Date: 03/27/08 17:00 **Prep By:**

Ksudha

QC Type: Method Blank			
Parameter	CAS # Result	Units D.F.	RptLimit Qual
Benzene	71-43-2 BRL	mg/L 1	0.002

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oual
Benzene	0.02	0.021	105	0.02	0.022	110	4.65	20	80-120	1

QC Type:	MS and MSD											
QC Sample	ID: 97436.	02										
		Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter		Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Benzene		0.017	0.02	0.035	90	0.02	0.034	85	2.90	20	80-120	

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Analysis: Ignitability (Flash Point)

Method :

SW-846 1010

Reporting Units: °F

QC Batch ID: Qb08033140

Created Date: 03/31/08

Created By: Sgarcia

Samples in This QC Batch:

97436.02

QC Type: Duplicate QC Sample ID: 97394.01 Sample QCSample RPD RPD Parameter Result Result Units CtrlLimit Qual Ignitability >150 >150 20

QC Type: LCS and LCSI)									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	86	104	83	86	104	0	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID: 97436

Date:

3/31/2008

Analysis: Ignitability (Flash Point)

Method:

SW-846 1010

Reporting Units: °F

QC Batch ID: Qb08033141

Created Date: 03/31/08

Created By : Sgarcia

Samples in This QC Batch: 97436.01

QC Type: Duplicate				
QC Sample ID: 9743	86.01 OCSample Sample		RPD	
Parameter	Result Result	Units RPD	CtrlLimit	Qual
Ignitability	>150 >150	₽	20	

QC Type: LCS and LCSI	Ď									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	86	104	83	86	104	0	20	75-125	- Quan

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID:

97436

Date:

3/31/2008

General Term Definition

Back-Wt

Back Weight

BRL

Below Reporting Limit

cfu

colony-forming units

Conc.

Concentration

D.F.

Dilution Factor

Front-Wt

Front Weight

LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

MS

Matrix Spike

MSD

Matrix Spike Duplicate

MW

Molecular Weight

Post-Wt

Post Weight

ppm Pre-Wt parts per million Previous Weight

Q

Qualifier

RegLimit

Regulatory Limit Relative Percent Difference

RPD **RptLimit**

surr

Т

Reporting Limit Surrogate

Time

TNTC

Too numerous to count

Qualifier Definition

& B Labs C	hain of C	ustody	The C	Chain of C	'usi				Page of
10100 East Fwy. (I-10), Ste. 100 Houston, TX 77029	1. Company: Lan	REPORT TO	Produi	2. Sompany	٠	Sûn.	OICE TO:		3. PO#
713-453-6060	Address: Nel	utti		Address:	-				4. Turnaround Time (Business Days)
713-453-6091 Fax	4.			11200	نند	·		·····	□ 1 Day* □ Other
ablabs.com	Contact: 6000	rd Lasse	381-385	Contact:				in the same of the same of the same of the same of the same of the same of the same of the same of the same of	Days.
18B JOB 10 # 07436	Phone: Rachyl	Wheeton	4 " 451	Phone:	-	<u>Philippe a comment</u>			☐ 3 Days* * Surcharge applies
5. Project #	Fax: 0 Wille	it lights	<u>' " 443.</u>	∑ Fax: □	ا. ماست				7 Days
A I Tojourn	E-mail: 🔾			E-mail: Q					☐ 10 Days - Standard
5. Project Name / Location					13.	14. Contain			
				*		15. Preserv 16. pH-Lab		+++	
7. Reporting Requirement:	······································		······································		ers	<u>10. μπ-μαυ</u> 17.			
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐	See Atrached	I Standard Level II			Containers		-7 s	7 /	
3. Sampler's Name & Company (PLEASE PR		Signature & Da	íe.		No. of Cor	cs)		//	
BUSE 9. Sample ID and Description	10. Samp	oling 11.	12. Mat	rix	Ž	345	X /	//	
AUL F	Date	Time S g	Water Soil Sludge	Other Other			T/		18. REMARKS
014 Frac Jank	3/27/08		7 2 		-	1///		f = f	10. TEMATIKO
Olf Frac Jank									
MA Dumoster Pigs & So	tids "		-1/4		<u> </u>	1			
					_				
					_			-	
					_				
	4								
19. RELINQUISHED BY	DATE T	IME 20: RECE			4-1		DATE	TIME	22. KNOWN HAZARDS / COMMENTS
1118 Laures e	4/13/27/08/11	57	M	how K-	从	ル·	3/21/08	11155	
Anthon Su	la 3/33/08 1	4.37	,						
		TO RECE	IVER BY LARE	ATORY: A		V	3/27/58	til sa	Temperature: 3.4 °C
Containers: VOA - 40 ml vial A/G - Amber/Glass 4 oz/8 oz - glass wide mouth P/O - Plastic/other	s 1 Liler		ves: C - Cool OH - NaOH	H - HCI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- H ₂ SO ₄	<u> </u>	Intact(Yor N
METHOD OF SHIPMENT		RILLOF	LADING / TR/		3	~ ~0 (C)			A&B cannot accept verbal changes
LAB USE ONLY SAMPLING	RENTAL	P/U	- mr 300 11 4 h.e. (- 1 1 1 1	2-01 NO 28-4 SE				· · · · · · · · · · · · · · · · · · ·	Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days
: : ::::::::::::::::::::::::::::::::::	-								A & B reserves the right to return samples

Sample Condition Checklist



Date: 03/28/08

A&B	JobID :	97436		Da	te Received	: 03	/27/2008		Time	Received :	02:30 P	М	***************************************
Clier	nt Name :	Enterpri	se Prod	ucts			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
Tem	perature :	3.4°C		Sa	imple pH:	N/	A						
							oints					Yes	No
1.	Cooler sea	al present a	nd signe	ed.		<u> </u>	- 30 Gr. 480.00	7					X
2.) in a cooler			···········	***************************************					······································	X	
3.	If yes, ice	in cooler.										X	
4.) received w	vith chai	n-of-custo	dy.			 				X	
5.	C-O-C sign	ned and dat	ed.						······································		·	×	
6.	Sample(s) received w	rith sign	ed sample	custody sea	ıl.			······	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			X
7.	Sample co	ontainers ar	rived int	tact. (If no	comment).						······	X	
	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.	-		V		V]
9.	Sample w	ere receive	d in appı	ropriate co	ntainer(s).			***************************************				Х	
10.	All sample	es were logg	ged or la	beled.								Х	
11.	Sample II	labels mat	ch C-O-	C ID's								Х	
12.	Bottle cou	int on C-O-C	matche	es bottles f	ound.							Х	
13.	Sample vo	olume is suf	ficient fo	or analyses	requested.							Х	
14.	Samples v	vere receive	d withir	the hold	time.							Х	
15.	VOA vials	completely	filled.					·				N/A	
16.	Sample ac	cepted.										X	
Com	ments : Inc	lude action	s taken t	to resolve	discrepancie	s/prot	olem:						
	····										······································		
Recei	ived by ;	mperalta					Check in	by/date:	mperalta	/ 3/27/2008			
				<u></u>			J. 700K 111			, -, -, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	·····		
	: 713-453-										ww.ablabs		

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/1/2008

Dear Shelly Minton

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2685

Expiration Date 4/4/2010

Generator: Dresser

Address: 1210 West Sam Houston Parkway

Houston, TX 77003

Waste Information

Name of Waste: Waste coolant and mixture

TCEQ Waste Code #: CESQ1191

Container Type:

Detailed Description of Process Generating Waste:

Used coolant and oil from machining operations

Color: varies

Odor: none

pH: 7-9

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES ENVIROMENTAL

7137488664

P.002



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

(713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 309

TSWR No. 30000

SECTION 1: Gene					
Company:	Dresser				
Address:	1210 West Sam H				
City, State, Zip:	Houston, TX 7700)3			
Contact:	Jay Kozadoy		Title:	Agent for Dresser	
Phone No:	713-824-4380		Fax No:		
24/hr Phone:	713-824-4380				
U.S. EPA L.D. No:	TXCESQG			r A.	
State L.D.	CESQG		SIC Code:	NA	
SECTION 2: Billin	g Information -	Same as Above	•		
Company:	Precision Fluids				
Address:	5230 Brittmoore				
City, State, Zip:	Houston, TX 77003				
Contact:	Shelly Minton	Title:	Accts Payabl	A	
Phone No:	713-896-0606	Fax N		16-0610	
Name of Waste; W	ral Description of the		nt and oil from mack	sining anegotions	
Derguen Deschibno	O DI L'IUCESS Gettera:	HIE WASHE. <u>O'ACG COOIS</u>	it and on it one maci	micik oberanous	
Physical State:	∠ Liquid	Sludge	☐ Powder		
	Solid	Filter Cake	Combination	.n	
	Soria	T PROCE CARE	Company	, .	
Color: <u>Varies</u>	•	Odor: <u>Nope</u>			
Specific Gravity (w	ster=1): <u>.9-1.1</u>	Density: 3-9 lbs	s/gai		
Does this material c	ontain any total phe	aolic compounds? 🔲	Yes 🛭 No	4 47 - 11 11 11 11 11 11 11 11 11 11 11 11 1	
Does this material c	ontain any para sub	stituted phenolic comp	ounds? 🔲 Yes 🏻 [No San San San San San San San San San San	•
7	Cinal above	M North about	erente. La companya di seriesa	The second secon	
Layers:	Single-phase	Multi-phas	E	200	etgs-y
	Drum	☑ Tote	Truck	Other (explain)	
Container Type:	Drum		LI Aruck	Corner (exhaun)	
Container Size:		<u>275</u>	v 3 55		**
					<u> </u>
Frequency:	☐ Weekly	☐ Monthly	☐ Quarterly	⊠ Yearly	
		-		and the state of t	
Number of Units (c		Other:		and the second of the second of the second	
Texas State Waste	Code No: Cl	ESQ1191			
Proper U.S. DOT S	hipping Name:	Non-RCRA, Non	r-DOT Regulated W	aste Water	Sarre -
Class; NA	UN/N	A: Na	PG: N	RQ: Na	
	plan when the			4	
pages of the file	9.44 (400.004)		was commented.		
	and the state of t		e state of the second s		
				to an amount of	
			200 100 100 100 100 100 100 100 100 100		- 14 A. 15 A. 1
	- 1. (ASSESSMENT) 1 - 1. (A.) -				25.55

lash Point	ρH		ive Sulfides		tive Cyanides	1	lee664 Solids	P.0	
200	7-9	Omg/l		Omg/			<u>0-3%</u>		
Dil&Grease :100mg/l	TOC 7050mg/1		irc 475— - a	Copper	1.3	Nickel			
	7050mg/I	13.	475mg/l	3.196m	3/1	.230mg/	<u> </u>		
				A STATE OF THE STA					
ECTION 4: Phy	rsical and Chemica	l Data		34					
	CONTROL	CONTENTION	705			ixioni(ten		On its	
	e waste consists of	the following	ng materials		Ranges are	accepts		DT %	
Coolant				******	5-10			%	
Dil					2			%	
Vater		e e e e			88-93			%	ļ
									1
ECTION 5: Safe	ty Related Data								
f the handling of	this waste requires	the use of a	pecial protective	e equipment	, please explai	n.			
evel D PPE	•	,							
₩		Do assume en en							
	sched Supporting I		_			=	_		
Ast all documents o House Tests, Ch	i, notes, data, and/o lorinated Solvents n	or analysis a <u>legative</u>	attached to this s	iorm as part	of the waste a	IRVOTGG	ряскаде.	•	
ECTION 7: Inco	ompatibilities								
lease list all incor	npatibilities (if any	y):							
<u>lone</u>									
_	erator's Knowleds	e Documen	tation						
ECTION 8: Gen				- 5 L . a WET		MD N/P:	D boood	uman the	- Callowin
ECTION 8: Gen	sis of the hazardou			ed below, W.	as not pe ri	ORME	D based t	upon the	e followin
ECTION 8: Gen	sis of the hazardou			ed below, W.	as not peri	ORME	D based t	upon the	e followin
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- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickol: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organica Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

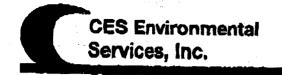


PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Base Pricing (including freight):		
\$425/tote Trans \$250 plus FSC		
Contamination Limits (maximum limit before surche	rzes apply):	
None		
		•
urcharge Pricing:		
None		
	· · · · · · · · · · · · · · · · · · ·	
Flash , metals esp. chrone & head;	test for % solic	15, phonolios, % water
Plash, metals esp. chrone & head;		15, phonolios, % water
Flash , metals esp. chrone & head;		, <u>mar</u>
Teatment and Handling Protocol:		15, phonolion, % water guire heat tank.
Teatment and Handling Protocol:	I solidify many re	quère heat tank.
Teatment and Handling Protocol: Treat water phase- put oil phase in with class I solids and		, <u>mar</u>
Teatment and Handling Protocol: Treat water phase-put oil phase in with class I solids and	I solidify many re	quire heat tank.
Treatment and Handling Protocol: Treatment and Handling Protocol: Treat water phase-put oil phase in with class I solids and	I solidify many re	guire heat tank.
Teatment and Handling Protocol: Treat water phase-put oil phase in with class I solids and	I solidify may re	puère heat tank.
Treatment and Handling Protocol: Treat water phase- put oil phase in with class I solids and treated Wastewater Discharge Subcategory: Subcategory A Subcategory B	I solidify many re	puòre heat tank.
Treatment and Handling Protocol: Treat water phase- put oil phase in with class I solids and treated Wastewater Discharge Subcategory: Subcategory A Subcategory B	Subcategory C	puère heat tank.
Flash , make is esp. chrone & nead; Freatment and Handling Protocol; Freat water phase- put oil phase in with class I solids and Freated Wastewater Discharge Subcategory: Subcategory A Subcategory B	Subcategory C	pure heat tank.
Flash , make is as p. chrone & nead) Freatment and Handling Protocol: Freat water phase- put oil phase in with class I solids and Freated Wastewater Discharge Subcategory: Subcategory A Subcategory B	Subcategory C	public heat tank.
Treatment and Handling Protocol: Treat water phase- put oil phase in with class I solids and Treated Wastewater Discharge Subcategory: Subcategory A Subcategory B	Subcategory C	pure heat tank.



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4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Dan Bowman

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 02/19/08

From: Miles Root

Lab Memo: 08-023

Subject: Precision Fluids Evaluations - # 0208-04 and 05

Two samples from Precision Fluids, 1210 West Sam Houston Pkwy, have been evaluated as potential sources for CES processing. The first, 0208-04 is degreaser water used to clean metal cutting machines. The second, 0208-05, is a mix of coolant, water and oil from the same type of process. A summary of the testing is found in the table below.

0208-04 | 0208-05

	Solids, vol%	1.5	0.5
	Chior-d-tect		>4000
	% Oil		2
	TOC	1420	7050
	Flash Point	>140	
	pH ;	10	7
	Metals		
1	Cd	0.029	0.013
	Cr	0.000	0.000
3	Cu	0.224	3.196
	Ni	0.126	0.230
n	Zn	0.330	3,475

Dresser
1210 West Sum
Houston, TX, 77003
Prescision Fluids
Ni
th Shelly Minton Zn

As can be seen in the summary, the chlor-d-tect on the coolant/oil stream is too high for acceptance. The metals on this stream in the water phase are also high in Cu and Zn, and would need to be diluted with special handling. The water processing assumes the oil could be accepted with a rebuttal provided by the supplier to account for the high chlorides. The degreaser water sample is good for us to receive and will process with no issues. Of the two samples, only evaluation 0208-04, the degreaser water, currently meets the requirements for our processing.



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

8030313

10f 1

Customer: CES Env. Svcs.

Sample ID: 0308-2X

Environ ID: 8030313

Project ID: 0308-2X

Matrix: Waste Water

Sampled: 03-10-08 11:50

Project Loc: Precision Fluid, Hou., TX

Received: 03-10-08 Reported: 03-12-08

Charge/P.O.: Dilution: 20.0 Type: Grab

Analyzed: 03-11-08 13:45

Extracted: 03-11-08

Analyst: JAC

VOLATILE SOLVENT SCAN - EPA SW-846/8260B

GCMS # 1

VOLATILE SOLVENT				GCMS # 1
ANALYTE/		ESULT	MQL	CAS#
PARAMETER	1 (mg/kg)	(mg/kg)	1
Acetone	1	2,100	40 *	67-64-1
Bromodichloromethane	<	0.10	0.10	75-27-4
Bromoform (Tribromomethane)	<	0.10	0.10	75-25-2
Bromomethane (Methyl bromide)	<	0.20	0.20	74-83-9
2-Butanone (MEK)		0.27	0.50	78-93-3
Carbon tetrachloride	<	0.10	0.10	56-23-5
Chlorobenzene	<	0.10	0.10	108-90-7
Chloroethane	<	0.10	0.10	75-00-3
Chloroform (Trichloromethane)	<	0.10	0.10	67-66-3
Chloromethane	<	0.10	0.10	74-87-3
Dichlorodifluoromethane (Freon 12)	<	0.20	0.20	75-71-8
1,1-Dichloroethane	<	0.10	0.10	75-34-3
1,2-Dichloroethane (EDC)	<	0.10	0.10	107-06-2
1,1-Dichloroethene	<	0.10	0.10	75-35-4
1,2-Dichloropropane	<	0.10	0.10	78-87-5
cis-1,3-Dichloropropene	<	0.10	0.10	10061-01-5
trans-1,3-Dichloropropene	<	0.10	0.10	10061-02-6
2-Hexanone	<	0.50	0.50	591-78-6
isobutanoi (isobutyi alcohol)	<	4.00	4.00	∌ 78-83-1
4-Methyl-2-pentanone (MIBK)		0.12	0.50	108-10-1
Methylene chloride (Dichloromethane)	<	4.00	4.00	75-09-2
1,1,1,2-Tetrachloroethane	<	0.10	0.10	<u> </u>
1,1,2,2-Tetrachloroethane	<	0.20	0.20	79-34-5
Tetrachloroethene	<	0.10	0.10	127-18-4
1,1,1-Trichloroethane	<	0.10	0.10	71-55-6
1,1,2-Trichloroethane	<	0.10	0.10	· 79-00-5
Trichloroethene	<	0.10	0.10	79-01-6
Trichlorofluoromethane (Freon 11)	<	0.20	0.20	75-69-4
1,2,3-Trichloropropane	<	0.20	0.20	96-18-4
Vinyl chloride	<	0.20	0.20	75-01-4
QUALITY CONT	201	CHER	OCATE DECOY	EDICE
SURROGATE QUALITY CONTR		RESULT	% RECOVERY	RANGE
<u></u>				
1,2-Dichloroethane-d4 (SS)		-0.055	1 10 1	80-120
Toluene-d8 (SS)	·:::::::::::::::::::::::::::::::::::::	0.047	94	80-120
4-Bromofluorobenzene (SS)		0.058	116	80-120

Key: EPA - Environmental Protection Agency

TCEQ - Texas Commission on Environmental Quality

100

MQL Method Quanitation Limit 1000X Dilution 03-10-08-17:18

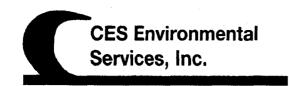
mg/l-Milligrams per Liter (PPM Volume) mg/kg - Milligrams per Kilogram (PPM Weigh) Oge 1 of 1

John Keller, Ph.D 🗰 Laboratory Director

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NVIRON EXPRE	ESS LABORATORIES, INC. it. / La Porte, Texas 77571-3	City	Houston			· 7		_1 °	City:					S	ate:		Zip:		Received on Ice? Yes No	9	amples Yes	Intact?
81) 471-0951 / ((800) 880-0156 321 / After Hours: (281) 844-	Phor	18: (213)67	0-16	160			P	hone										Cooler Temp. (°C)			No (NA)
mail: environex	p@aol.com	e-Ma	ildowna	-10°	2090	AVIS	VAR		ax: :Q∜: .	Ċo.	Δ.		Q	uote#					Hard Time OK?	I F	Res. Cl2	Check OK?
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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 4/1/2008

Dear Shelly Minton

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2686

Expiration Date 4/4/2010

Generator: Dresser

Address: 1210 West Sam Houston Parkway

Houston, TX 77003

Waste Information

Name of Waste: Non hazardous wastewater

TCEO Waste Code #: CESO1191

Container Type:

Detailed Description of Process Generating Waste:

Degreaser used to clean out machines prior to use in machining operations

Color: varies

Odor: none

pH: 7-9

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1. Con	erator Information						
Company:	Dresser						
Address:	1210 West Sam H	ouston Pl	kwv				
City, State, Zip:	Houston, TX 7700						
Contact:	Jay Kozadoy				Title:	Agent for	Dresser
Phone No:	713-824-4380				Fax No:		
24/hr Phone:	713-824-4380		<u> </u>				
U.S. EPA I.D. No:	TXCESQG						
State I.D.	CESQG				SIC Code:	NA	
SECTION 2: Billi	ng Information – 🔲	Same as	Above				
Company:	Precision Fluids		<u> </u>				
Address:	5230 Brittmoore						
City, State, Zip:	Houston, TX 77003					-	
Contact:	Shelly Minton		Title:		Accts Payable		
Phone No:	713-896-0606		Fax No	_	713-896	-0610	
		<u> </u>		_	,,,,,,,,,	- 0.0	
SECTION 3: Gen	eral Description of th	e Waste					
SECTION S. GUR	crai pescription of th	<u>c waste</u>					
			te: Degreaser (N	MSDS	Attached) Used	l to clean	out machines prior to use in
	· · · · · ·	_			_		
Physical State:	∠ Liquid		ludge	Ш	Powder		
	☐ Solid		ilter Cake		Combination		
Color: Varies		Odor: <u>No</u>	<u>one</u>				
Specific Gravity (v	vater=1): <u>.9-1.1</u>	J	Density: <u>8-9</u> lbs/	gal (
• •							
Does this material	contain any total phe	nolic con	npounds? 🔲 Y	es	⊠ No		
	, r			•			
Does this material	contain any para sub	stituted _l	phenolic compo	unds?	Yes 🖂	No	
_	—		-				
Layers:	Single-phase		⊠ Multi-phase	e			
Container Type:	☐ Drum		Γote		Truck		Other (explain)
Container Size:	<u></u>	2	<u> 275</u>				
		_					
_	— 	<u> </u>	N		0 (3		X7
Frequency:	☐ Weekly		Monthly	Ш	Quarterly	\boxtimes	Yearly
Number of Units (containers): 1	C	Other:				
Texas State Waste	Code No:	ESQ1191					
Proper U.S. DOT S	Shinning Name	N	on-RCRA, Non-	TOO	Regulated Wast	e Water	
-			······································				
Class: NA	UN/N	A: N	a		PG: Na		RQ: Na

Flash Point >200.	р Н 7-9	Reactive Sulfides Omg/l	Reactive Cya	anides Solids 0-3%
Oil&Grease	TOC	Zinc	Copper 3.196mg/l	Nickel
<100mg/l	<5000mg/l	3.475mg/l		.230mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	90-95	%
Heavy Duty Degreaser (MSDS Attached)	5-10	%
Dirt, dust	20-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D $\overline{\text{PPE}}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. In House Tests

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

TCLP Metals:

SECTION 8: Generator's Knowledge Documentation

Ran In House

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Volatiles:	
TCLP Semi-Volatiles:	
Reactivity:	Ran In House
Corrosivity:	Ran In House
Ignitability:	Ran In House
SECTION 9: General	tor's Certification
attached description is omissions of composit tested are representativ Authorized Signature Printed Name/Title:	the Kozoloy / Vendor / AGENT FOR DRESSEN /GIMPPI
CES USE ONLY (DO NOT	F WRITE IN THIS SPACE)
Compliance Officer: <u>k</u>	Approved Rejected
Approval Number:	2686

<u>S</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Mei</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Org</u>	anics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

	Metals Subcategory
Ġ	Oils Subcategory
Ø	Organics Subcategory

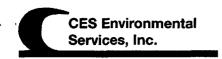
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$100/tote Trans \$250 plus FSC
	Trais \$250 plus rSC
2.	Contamination Limits (maximum limit before surcharges apply):
2.	None
3.	Surcharge Pricing:
	None
4.	Special Testing Requirements:
	None Run pH, 40 solids, phenolics, metals;
	power ()
5.	Treatment and Handling Protocol:
	Treat water in waste water treatment, will probably need to be processed in the heat tank.
	, , , , , , , , , , , , , , , , ,
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A Subcategory B Subcategory C
	•



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable): NA
8.	
8.	
8.	
8.	

MATERIAL SAFETY DATA SHEET

Name: TORNADO

2-Butoxyethanol

% Volatile:

Solubility:

Subtitle: HEAVY DUTY DEGREASER

Supplier's Name: Precision Fluids, Inc.

Supplier's Address: 5230 Brittmoore Rd. * Houston, TX 77041

ShippingName: Cleaning Compound, Liquid NOS

HazardClass: NON REGULATED

SECTION 1 - PRODUCT INFORMATION

ChemicalFamily: N/A Formula: N/A

Phone Number: (713) 896-0606

25 ppm

NPCA Hazardous Materials Identification System

identification System			
Health	2		
Flammability	0		
Resctivity	0		
Maximum Personal Protection	В		

NAME	CAS#	Wt%	PEL	TWA-TLV	STE-TLV	CARCINOGEN
Potassium Hydroxide 45%	1310-58-3	0 to 5	N/E	2mg/m3	N/E	No
Sodium Metasilicate	6834-92-0	10 to 15	2mg/m3	2mg/m4	N/E	No

5 to 10

SECTION 2 - INGREDIENTS

NO OTHER HAZARDOUS INGREDIENTS ARE CONTAINED IN THIS PRODUCT

SECTION 3 - PHYSICAL DATA

Bolling Range: 212+ Vapor Pressure:

>71

Specific Gravity: 1.07

Vapor Density:

Will not occur

pH:

12.0+

Hazardous Polymerization:

111-76-2

100% Evaporation Rate: <1

Physical Description: Clear purple liquid with mild butyl scent.

SECTION 5 - REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): Strong Acids

Hazardous Decomposition Products: Aikaline vapors in a fire

SECTION 4 - FIRE AND EXPLOSION DATA

N/E

Flash Point (Method Used TCC):N/A

25 ppm

Upper Explosive Limit: N/A

Lower Explosive Limit: N/A

Extinguishing Media:

Special Fire Fighting Procedures:

No

Not Flammable

Unusual Fire & Explosion Hazards:

SECTION 6 - STORAGE AND HANDLING INFORMATION

FIRST AID PROCEDURES

Precautions to be taken in Handling & Storage: Keep out of reach of children. For use by trained personnel only. Keep container closed during

storage. For institutional and industrial use only.

SECTION 7 - HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE

Primary Route of Entry:

reddening or swelling.

Skin: Skin irritani, Prolonged or repeated exposure may cause moderate

Eyes: Severe eye irritant. Liquid and mists can cause corneal injury.

inhalation:

Vapors may be irritating to mucous membranes of the nose, throat and lungs.

May be Irritating to the mouth, throat, esophagus and gastrointestinal

system. Vomiting and diarrhea expected with large doses.

Skin:

Remove contaminated clothing, Flush exposed area with large quantities of water. Seek medical attention if irritation persists.

Flush eyes with large quantities of water. Seek modical attention if irritation persists. . Logiania

Inhalation:

Get to fresh air. Seek medical attention if symtoms persist.

Indestion:

Drink two glasses of water. Seek medical attention immediately.

Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory information: Use with adequate ventilation.

Protective Gloves: Waterproof recommended

Mop-up or otherwise absorb and hold for disposal

Eye Protection: Safety glasses

Other Protective: N/A

SECTION 9 - SPILL OR LEAK PROCEDURE

Steps to be taken in case Material is Released or Spilled:

Waste Disposal Method: 5-

Any method in accordance with local applicable law

below acceptable limit.

Prepared According to 29 CFR 1910,1200

Product#: 0201

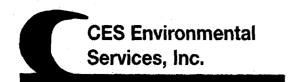
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Updated: August 11, 2007

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veo eliza i

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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 4/1/2008

Dear **Casey Dippel**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2687

Expiration Date 4/4/2010

Producer: Farouk Systems Address: 250 Pennbright

Houston, TX 77090

Material / Product Information

Name of Material / Product Hydrogen peroxide (<8%)

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Company generates product regularly, small portion didn't meet specs

Color: none Odor: none **pH:** 2.5-3.5

Physical State:

Incompatibilities: reducing agents, iron and heavy metals, galvanized iron, copper

alloys and caustic

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.







4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi		ation			
Company:	Farouk Systems				
Address:	250 Pennbright				
City, State, Zip:	Houston, TX 77090)			
Contact:	Casey Dippel		Title:	HSE Mai	
Phone No:	281-876-2000		Fax No:	281-874-	3020
24/hr Phone:	TVD001/110/0				
U.S. EPA I.D. No:	TXD981611262 69506		SIC Code:	2844	
State I.D.	09300	 	SIC Code:	2044	
SECTION 2: Billing Company: Address:	Information – 🔀 S	ame as Above			
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
	roduct: <u>Hydrogen P</u> of Process Generati	eroxide (Less than 8%)	terial / Product: g	company go	enerates product regularly, small
Physical State:	☑ Liquid☐ Solid	☐ Sludge ☐ Filter Cake	Powder Combination	n	
Color: none	• 0	dor: none			
Specific Gravity (wat	eer=1): <u>1.01</u>	Density: lbs/gal			
Does this material con	ntain any total phen	olic compounds? 🔲 Ye	s 💢 No		
	J				
Does this material con	ntain any para subs	tituted phenolic compou	nds? 🗌 Yes 🍒	No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type:	□ Drum	☐ Tote	Truck		Other (explain)
Container Size:				_	
Container Size.			<u>ocoogui</u>		
Frequency:	☐ Weekly	☐ Monthly [☐ Quarterly	П	Yearly
-	•	Other: <u>1-150</u>	-	ш	~ ~~
Number of Units (con	пашегу;		<u>ogai</u>		
		PRODUCT			
Proper U.S. DOT Shi	pping Name:	Hydrogen peroxide	·		
Class: 5.1	UN/NA	: UN2984	PG: III		RQ: na

Flash Point	pН	N/A	N/A	Solids
<u>none</u>	<u>2.5-3.5</u>			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
hydrogen peroxide	6-8	%
water	92-94	%
		1

SECTION 5: Safety Related Data

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. \overline{MSDS}

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

reducing agents, iron and heavy metals, galvinized iron, copper alloys and caustic

SECTION 8: Material Producer's Certification

attached description is complete and accurate to the best of my	edge and/or analytical data. I hereby certify that the above and knowledge and ability to determine that no deliberate or willful uspected hazards have been disclosed. I certify that the materials to the control of
Authorized Signature: Not Reconses	Date: Ҷ山 🌣 🤻
Printed Name/Title:	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 4-4-08 Approved Rejected	.26/gal \$250 trans
Date: 4-4-08 Approved Rejected	\$250 trans
Approval Number: 2687	



100

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	* Holgal Product management Trans (18(250 min), only 1790 52/s \$ 150 \$ washout
	Trans (\$(250 min), only 1790 50/5
	\$ 150 Do washout
2.	Contamination Limits (maximum limit before surcharges apply):
	Peroxide t water only
_	
3.	Surcharge Pricing:
	Non-Conforming
4.	Special Testing Requirements:
	Done by Dur:u
	sew ye was
5.	Treatment and Handling Protocol:
	to be used for treating; Avoid organics-this is an oxidizer.
	57
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C ✓
-	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA

MATERIAL SAFETY DATA SHEET

Hydrogen Peroxide Less Than 8%



MSDS Ref. No.: 7722-84-1-1 **Date Approved:** 04/30/2006

Revision No.: 7

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the Canada's Workplace Hazardous Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Hydrogen Peroxide Less Than 8%

GENERAL USE:

Standard grade is used for industrial bleaching, processing, pollution

abatement and general oxidation reactions.

MANUFACTURER

FMC CORPORATION FMC Peroxygens 1735 Market Street Philadelphia, PA 19103 (215) 299-6000 (General Information)

FMC of Canada Ltd. FMC Peroxygens PG Pulp Mill Road Prince George, BC V2N2S6 (250) 561-4200 (General Information)

EMERGENCY TELEPHONE NUMBERS

(281) 474-8750 (Plant: Pasadena, TX, US - Call Collect) (250) 561-4221 (Plant: Prince George, BC, Canada - Call Collect)

(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call: (800) 424-9300 (CHEMTREC - U.S.A.) (613) 996-6666 (CANUTEC - Canada)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Clear, colorless, odorless liquid
- Weak oxidizing agent that is stable under normal conditions.
- Sensitive to contamination.
- Decomposes yielding oxygen that supports combustion of organic matters and can cause overpressure
 if confined.

POTENTIAL HEALTH EFFECTS: Minimally irritating to the eyes and mildly irritating to skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Hydrogen Peroxide	7722-84-1	<8	231-765-0	Xi, R36
Water	7732-18-5	>92	231-791-2	Not classified

Date: 04/30/2006

4. FIRST AID MEASURES

EYES: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

NOTES TO MEDICAL DOCTOR: Direct contact may be minimally irritating. Treatment is by dilution and is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Flood with water.

FIRE / EXPLOSION HAZARDS: Product is non-combustible. On decomposition releases oxygen which may intensify fire.

FIRE FIGHTING PROCEDURES: Any tank or container surrounded by fire should be flooded with water for cooling. Wear full protective clothing and self-contained breathing apparatus.

FLAMMABLE LIMITS: Non-combustible

SENSITIVITY TO IMPACT: No data available

SENSITIVITY TO STATIC DISCHARGE: No data available

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Dispose according to methods outlined for waste disposal.

Date: 04/30/2006

Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

7. HANDLING AND STORAGE

HANDLING: Wear chemical splash-type monogoggles and full-face shield, impervious clothing, such as rubber, PVC, etc., and rubber or neoprene gloves and shoes. Avoid cotton, wool and leather. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible container rupture. Hydrogen peroxide should be stored only in vented containers and transferred only in a prescribed manner (see FMC Technical Bulletins). Never return unused hydrogen peroxide to original container, empty drums should be triple rinsed with water before discarding. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic.

STORAGE: Store drums in cool areas out of direct sunlight and away from combustibles. For bulk storage refer to FMC Technical Bulletins.

COMMENTS: VENTILATION: Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into the work environment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Hydrogen Peroxide	1 ppm (TWA)	1 ppm (PEL)	

ENGINEERING CONTROLS: Ventilation should be provided to minimize the release of hydrogen peroxide vapors and mists into the work environment. Spills should be minimized or confined immediately to prevent release into the work area. Remove contaminated clothing immediately and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash-type monogoggles if splashing is expected during handling of product.

RESPIRATORY: If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA), or other approved atmospheric-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)). DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (AKA dust mask), especially those containing oxidizable sorbants such as activated carbon.

Date: 04/30/2006

PROTECTIVE CLOTHING: Rubber or neoprene footwear (avoid leather). Impervious clothing materials such as rubber, neoprene, nitrile or polyvinyl chloride (avoid cotton, wool and leather). Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

GLOVES: Wear liquid proof rubber or neoprene gloves. Thoroughly rinse the outside of gloves with water prior to removal. Inspect regularly for leaks.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Odorless

APPEARANCE: Clear, colorless liquid

AUTOIGNITION TEMPERATURE: Non-combustible

BOILING POINT: $101^{\circ}\text{C} (214^{\circ}\text{F})$

COEFFICIENT OF OIL / WATER: Not available

DENSITY / WEIGHT PER VOLUME: Not available

EVAPORATION RATE: Above 1 (Butyl Acetate = 1)

FLASH POINT: Non-combustible

FREEZING POINT: $-3 \, ^{\circ}\text{C} \, (27 \, ^{\circ}\text{F})$

ODOR THRESHOLD: Not available

OXIDIZING PROPERTIES: Not applicable

PERCENT VOLATILE: 100%

pH: (as is) approx. 2.5 to 3.5

SOLUBILITY IN WATER: (in H₂O % by wt) 100%

SPECIFIC GRAVITY: $(H_2O = 1): 1.01 @ 20^{\circ}C/4^{\circ}C$

VAPOR DENSITY: (Air = 1): Not available

VAPOR PRESSURE: 31 mm Hg @ 30 °C (86 °F)

COMMENTS:

pH (1% solution): 5.0 - 6.0

NOTE: Data above are for 5% Hydrogen Peroxide.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Excessive heat or contamination could cause

product to become unstable.

STABILITY:

Stable (contamination could cause decomposition)

Date: 04/30/2006

POLYMERIZATION:

INCOMPATIBLE MATERIALS:

Reducing agents, iron and other heavy metals,

galvanized iron, copper alloys and caustic.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen which supports combustion.

COMMENTS: Materials To Avoid: Dirt, organics and combustibles.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: 5% hydrogen peroxide: Minimally irritating (rabbit) [FMC Study Number: 186-09491

SKIN EFFECTS: 10% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit) [FMC Study Number: 189-1078]

DERMAL LD₅₀: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: 183-746]

ORAL LD₅₀: 10% hydrogen peroxide: > 5,000 mg/kg (rat) [FMC Study Number: I89-1077]

INHALATION LC₅₀: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: 189-1080]

ACUTE EFFECTS FROM OVEREXPOSURE: Minimally irritating to the eyes, skin, nose, throat, and lungs.

CHRONIC EFFECTS FROM OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Hydrogen Peroxide	Listed	Not listed	Not listed	(ACGIH) Listed (A3,
				Animal Carcinogen)

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Channel catfish 96-hour LC₅₀ = 37.4 mg/L

Fathead minnow 96-hour $LC_{50} = 16.4 \text{ mg/L}$

Daphnia magna 24-hour $EC_{50} = 7.7 \text{ mg/L}$

Daphnia pulex 48-hour $LC_{50} = 2.4 \text{ mg/L}$

Freshwater snail 96-hour $LC_{50} = 17.7 \text{ mg/L}$

For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993

CHEMICAL FATE INFORMATION: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Degrades in the atmosphere within the light spectrum with hydroxyl radicals in the gas phase and subsequent photolysis.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose followed by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME:

Not regulated

PRIMARY HAZARD CLASS / DIVISION:

Not applicable

UN/NA NUMBER:

None

LABEL(S):

Not applicable

PLACARD(S):

Not applicable

ADDITIONAL INFORMATION:

DOT Marking: Not applicable

Hazardous Substance/RQ: Not applicable

Date: 04/30/2006

49 STCC Number: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

ADDITIONAL INFORMATION:

Not regulated

Date: 04/30/2006

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

ADDITIONAL INFORMATION:

Not regulated

OTHER INFORMATION:

Protect from physical damage. Keep drums in upright position.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Not applicable

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: None, (conc. <52%)

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4): Not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA INVENTORY STATUS (40 CFR 710):

Listed

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

Product Identification Number: None
Hazard Classification / Division: None
Ingredient Disclosure List: Not listed

INTERNATIONAL LISTINGS

Hydrogen peroxide:

China: Listed

Japan (ENCS): (1)-419 Korea: KE-20204

Philippines (PICCS): Listed

HAZARD, RISK AND SAFETY PHRASE DESCRIPTIONS:

Hydrogen Peroxide, (Index #008-003-00-9):

EC Symbols: Xi (Irritant)

EC Risk Phrases: R36 (Irritating to eyes.)

EC Safety Phrases: S1/2 (Keep locked up and out of reach of children.)

S3 (Keep in a cool place.)

S17 (Keep away from combustible material.)

S26 (In case of contact with eyes, rinse immediately with plenty of

Date: 04/30/2006

water and seek medical advice)

S28 (After contact with skin, wash immediately with plenty of water

and soap.)

S36/37/39 (Wear suitable protective clothing, gloves and eye/face

protection.)

S45 (In case of accident or if you feel unwell, seek medical advice

immediately - show the label where possible.)

16. OTHER INFORMATION

HMIS

Health	0
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	Н

Protection = H (Safety goggles, gloves, apron, the use of a supplied air or SCBA respirator is required in lieu of a vapor cartridge respirator)

HMIS = Hazardous Materials Identification System

Date: 04/30/2006

Degree of Hazard Code:

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

NFPA

Health	0
Flammability	0
Reactivity	0
Special	None

No special requirements

NFPA = National Fire Protection Association

Degree of Hazard Code:

- 4 = Extreme
- 3 = High
- 2 = Moderate
- 1 = Slight
- 0 = Insignificant

REVISION SUMMARY:

This MSDS replaces Revision #6, dated April 05, 2005. Changes in information are as follows: Section 1 (Product and Company Identification) Section 16 (Other Information)

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Waste Pre-Acceptance/Approval Letter

Date 3/26/2008

Dear Jon -AWS

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2669

Expiration Date 3/26/2010

Generator: PGS Onshore
Address: 15637 Ennis Rd

Richmond, TX 77469

Waste Information

Name of Waste: Oily water and sludge

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Clean out of sump containing oily water and sludge. Sump collects oil from pressure

washing system

Color: varies

Odor: none

pH: 6-8

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

MAR-19-2008 14:16

CES ENVIROMENTAL

7137488664

P.003

CES Environmental Services, inc.

 $\mathcal{D}\mathcal{G}$

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solld Waste Pertoit No: 30948

U.S. EPA ID No: TXD008950461 | ISWR No: 30900

					-
SECTION 1: Gent	erator Information				
Company:	PGS Onshore				
Address:	15637 Ennis Dr.				
City, State, Zip:	Richmond, TX 774				<i>*</i> ***********************************
Contact:	Dean Sur	Ua ·	Title:	Monagent	
Phone No:	281-568-202		Fax No:	281-568-3800	
24/hr Phone:	28-568-20	<u>>0</u>			
U.S. EPA LD, No:	TXCESQG		SIC Code:	CECOGOTOT	
State I.D.	CESQG		SIC Code:	CESQG219T	
SECTION 2: Billin	g Information - S	me as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Tide:	1		
Phone No:		Fax No):		
SECTION 3: Gene	ral Description of the	<u>Waste</u>			
Name of Waste: Oi Detailed Description pressure washing sys	n of Process Generatin	ng Waste: <u>clean out of</u>	sump containing of	y water and sludge. Sump collects of	1 from
Physical State:	∠ Liquid	Sludge	Powder		
I WATERI STREET			Combinatio	_	
	Solid Solid	☐ Fliter Cake	— 1		
Color: varice	O	lor: none	Does this	material contain an compounds 1 4E	y total
		- 03L	Alaemalia	Composition of The	was also
Specific Gravity (wa	nter=1): <u>1</u>	Density: Did Iba/g	al Trible MC	Genipolatias 19E	S E MO
	·	_	Does this n	raterial contain any para	substitute
Layers:	Single-phase	Multi-phase	• 1	naterial contain any pana henolic compounds by	EL DIN
Container Type:	☐ Drum	Tote	⊠ Truck	Other (explain)	
	<i>D</i> 1400	1000	3-2000g		
Container Size:	***		3 3 00000		
-		F 24	And Annual or		
Frequency:	Weekly	Monthly	Quarterly	🚜 Yearly	
Number of Units (co	ntainers): <u>na</u>	Other: na		The Second secon	•
Texas State Wester	Cade No:	/ <u>a</u>		- () () () () () () () () () (
Proper U.S. DOT 9	Apping Name:	Reychal	12 10: h. L.	lake Mixhard	
Class:	UN/NA:		PE	RQ:	
Class:	والمراجع المنتسب المنتسب المنتسب المنتسب	N/k		<u> </u>	***
				The state of the s	
Flash Point >200		tenctive Salfides mg/l	Reactive C	anides Solido	TOTAL DESIGNATION OF A
Oll&Grease	6-8 0 10°C	Zine	Copper		
Oll&Grease 1-3%mg/l	450come/	Omg/l	Omg/I	Nickel Omg/l	1.00
1 - 70maya				(Amk)	
The same of the sa	The second secon	november (and Imperior August Conflict of The property (and Media Space Chart probe) (1915年)			44 C.
	en en en en en en en en en en en en en e	.2	1 5	1	
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MAR-19-2008 14:17

CES ENVIROMENTAL

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P.004

SECTION 4: Physical and Chemical Data

	TANKIN COMESTICATION	タイパ (共立 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	TO THE
	The waste consists of the following materials	Ranges are acceptable	or %
water		82-94	%
lube oll		1-3	1%
dirt/leaves		5-15	1%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. smadard PPE

SECTION 6: Attached Supporting Documents

List all documents,	notes, data, and/or	analysis attached to	this form as part o	f the waste approval :	package.
TCLP Benzene					
TCLP Metals					
RCI					

SECTION 7: Incompatibilities

Please/list all incompatibilities (if anv):

SECTION 8: Generator's Knowledge Documen	
7 070 8	
SECTION'8: Generator's Knowledge Document	tation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:	Bearing only			
Reactivity: Corrosivity: Ignitability:				
SECTION 9: Generator			er i e	
attached description is co	emplete and accurate to the	he best of my knowl	edge and ability to de	I hereby certify that the above and termine that no deliberate or willful disclosed. I certify that the materials

tested are representative of all materials described by this document.

Anthorized Signature: X Dean Sualla Egupment Supurasor

Printed Name/Title: V Dean Sualla Egupment Supurasor

CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Palchen They A	Process Facility Information: * Chlor d-Tect Trans \$105/hr on 01
Date: 3-26-08 Approved Rejected	Helpe A 30/Ar St TOC L 10/0000
Approval Number: 2669	Disposed 35/4al

ECTION 10: Waste Receipt Classification Under 40 CFR 437
this material a wastewater or wastewater sludge? YES NO
'Yes', complete this section.
LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
als Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
anics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper:	m: 0.2 mg/L um: 8.9 mg/L 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory

SECTION 11: Additional Instructions

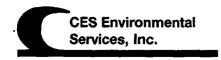
Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.35/gal, \$105 Trans Air Machine plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
ì	Fails Chlor-d Tect
_	
3.	Surcharge Pricing:
	None includes solids in wastes
	Curatial Tacking Descripens and
4.	Special Testing Requirements:
	Chlor-d-tect on oil phase and flash on oil phase. Test water for pt, TOC.
	TSS, phenolics, metals.
	melay .
ļ	
5.	Treatment and Handling Protocol:
1	Treat oily water-liquids portion-pull off first
Ì	Put sludge in class 1 sludge box
- {	
6.	Treated Wastewater Discharge Subcategory:
1	
Ì	☐ Subcategory A ☐ Subcategory C
1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):	
	Oil as used oil	
8.	Management for Product Recovered/Recycled (if applicable):	
8.	Management for Product Recovered/Recycled (if applicable): Used oil	
8.		
8.		
8.		



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

63008.01

1of 1

Customer: CES Env.

Sample ID: Oil Water/

Environ ID: 63008.01

Project ID: National Oilwell

Sludge

Sampled: 03-13-08 09:00

Project Loc: Hou., TX

Matrix: Waste Water

Received: 03-13-08

Charge/P.O.: 0308-08

Type:

Reported: 03-20-08

			RECEIVED BA	SIS					
ANALYTE /	F	RESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER	<u> </u>			LIMIT	<u> </u>	METHOD	BY	1	1 1
BENZENE TCLP									
Benzene	<	0.001	mg/l	-	0.001	SW846.8021B	DMB	03-19-08	13:36
RCI						•			
Reactive Cyanide	<	50	mg/kg	250	50	SW846.7.3.3	LC	03-18-08	14:15
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	LC	03-18-08	14:50
Corrosivity (pH)		7.26	su	=>2; =<12.5		SW846.9045C	LC	03-18-08	13:50
Ignitability	>	160	°F	> 140		SW846.1010M] LC	03-19-08	14:05
METALS (RCRA) - TCLP			1			SW846.1311	MN	03-13-08	1 1
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Barium	l	1.28	mg/i	100	0.02	SW846.6010B	JA	03-20-08	15:00
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JA	03-20-08	15:00
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Selenium		0.05	mg/l	1.00	0.05	SW846.6010B	JA	03-20-08	15:00
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	JA	03-20-08	15:00
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A	MN	03-17-08	10:00

TCLP - Toxclsity Charasteric Leaching Procedure

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

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John Keller, Ph.D **Laboratory Director**

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846	S/5030/8021B	MATRIX:	LEACHATE

ANALYST:	dmb	UNITS:	mg/l	NO.SAMPLES: 1

SAMPLES:	63008.01				

MATRIX	MATRIX	SPIKE	MS	MS	MSD	RPD	CCV	MB	QC LIMITS (%)	
8030151	RESULTS	ADDED	RESULTS	REC	REC		REC		REC-RANGE	RPD
BENZENE	0	100	86	86	84	3	91	0	60 - 120	20
TOLUENE	0	100	86	86	84	3	92	. 0	60 - 120	20
Et-BENZENE	0	100	88	88	85	4	88	0	60 - 120	20
XYLENES	0	300	274	91	89	2	99	0	60 - 120	20
MTBE	0	100	101	101	101	0	114	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

03-20-08 IN KELLER, Ph.D DATE

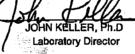
Lab.Dir./QA-QC Mgr.

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS		METHOD:	EPA SW84	16/6010		MATRIX:	LIQUID	
ANALYST:	JA	DATE:		UNITS:	PPM (mg/l)	NO.SAMPLES:	7	
SAMPLES:	63008.01	63012.01	63012.02	63014.01	63014.02	63017.01	63023.01		
									\exists

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID:	63008.01

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIA	/ITS
Matrix	RESULTS	ADDED	RESULTS	- %	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	5.01	100	102	2	92	0	75 - 125	20
Barium	0.00	5	4.94	99	100	1	96	0	75 - 125	20
Cadmium	0.00	5	4.90	98	100	2	98	0	75 - 125	20
Chromium	0.00	5	4.89	98	99	1	97	0	75 - 125	20
Lead	0.00	5	4.94	99	102	3	97	0	75 - 125	20
Selenium	0.00	5	5.08	102	106	4	94	0	75 - 125	20
Silver	0.00	5	4.92	98	100	2	97	0	75 - 125	20



ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA	SW846/7471A	MATRIX:	LIQUID

ANALYSTS: MN	DATE					
ANALYSTS: MN		03.17.08	UNITS:		NO.SAMPLES:	
	IDATE:			ma/i		

SAMPLES:	63001.01	63001.02	63001.03	63001.04	63003.014	63008.01	63011.01	63012.01
	63012.02	63013.01 ·	63015.01					

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

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SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METH.	CORR. QC	IMITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF RECOV	
MERCURY	0.00	0.002	0.002	100	100	0 .	100	0	1 60 - 120	



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	ESS LABORATORIES, INC.	City	4 3	State:		Zip:	, c	ity:	7		- 1/1		State:	raige:	4	Zip:	2.79	Receive	ed on l	ce?	s	amples	Inlad	
281) 471-0951 /	St. / La Porte, Texas 77571-31 (800) 880-0156	Phone: 7/3 -		7X 619		201	Р	hone;							1872	engin .		Cooler	Temp.	(°C)	P	Yes reserva	Shor	
-ax: (281) 471-5 -mail: environe)	821 / After Hours: (281) 844-2 p@aol.com	308 Fax: -7/3 -(076	-16	אָר	<u> </u>		ax: O#;	_ (_		Quot	9#:		1	* 2		Hold Ti	me OK	2			Check C	NA OK
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	S:Soil W:Water WW:Waste Wa	ater SL:Sludge SO:Solid	SE:Sed	iment I	: Lea	chate	WI:w	ipe OF	:Orga	anic O	L:Oil	DS:D	Orum S			rum Li ervat			r		: 7 		111	1
	P:Plastic G:Glass V:VOA Glass	s O:Other						1	:lce(<	4°C) 2	:HCL	3 :H2	SO4 4	4:HNC	1 456 3 5 :	naOH	ive r I 6:N	∖ey aOH+Zi	n Aceta	ate 7:1	Na2S2	03 8:1	None	-

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/26/2008

Dear Angela Molis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2670

Expiration Date 3/26/2010

Generator: Shawcor Pipe Protection

Address: 4501 Knapp Road

Pearland, TX 77581

Waste Information

Name of Waste: Non-RCRA waste sludge

TCEQ Waste Code #: 00093191

Container Type:

Detailed Description of Process Generating Waste:

Waste sludge from phosphating carbon steel pipe prior to pipe coating. Liquids will be neutralized prior to shipment.

Color: grey

Odor: none

pH: neutral

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEO Industrial Solid Waste Permit No: 30948

			No: TXD008			No: 3090	0		
SECTION 1: Gene	rator Information								
Company:	Shawcor Pipe Pro	tection	LLC						
Address:	4501 Knapp Rd								
City, State, Zip:	Pearland, TX 775	81		<u></u>					
Contact:	Angela Molis				Title:				
Phone No:	281-485-8321				Fax No:	281-485-	2657		
24/hr Phone:	4/hr Phone: 713-922-5022								
U.S. EPA I.D. No:	TXT490013562								
State I.D.	LD. 32925				SIC Code:	Ah			
SECTION 2: Billin Company: Address: City, State, Zip:	g Information – 🛛	Same a	as Above						
Contact:			Title:						
Phone No:			Fax N						
-			1431	··· –					
SECTION 3: Gener	ral Description of th	a Was	ta						
Detailed Description Liquids will Physical State:	n of Process Genera Le newfrolices Liquid Solid	\boxtimes	aste: <u>Waste Slu</u> or to Skipp Sludge Filter Cake	dge from	n phosphating Powder Combinatio		el pipe prior to pipe coating.		
Color: Grey		Odor:	None						
Specific Gravity (wa	nter=1): <u>1-1.5</u>		Density: <u>9-10</u>	lbs/gal					
Does this material c	o ntain a ny total phe	enolic c	ompounds? 🔲	Yes	⊠ No				
Does this material c	ontain any para sub	stitute	d phenolic com	pounds'	? □ Yes	⊠ No			
Layers:	Single-phase		Multi-pha	ase					
Container Type: Container Size:	Drum		Tote	\boxtimes	Truck 1-4000		Other (explain)		
Frequency:	☐ Weekly		Monthly	\boxtimes	Quarterly		Yearly		
Number of Units (co	ntainers): 1		Other:						

Non-RCRA, Non DOT Regulated Waste Phosphate Sludge

Na

PG:

00093191

Na

UN/NA:

Texas State Waste Code No:

Na

Class:

Proper U.S. DOT Shipping Name:

RQ:

Na

Flash Point	pH 1	Reactive Sulfides		tive Cyanide		488664 Solids	P.003]
>2 <u>00</u>	Na Newho	<u> Omg/l</u>	Omg/	1	l	70-100	%	
Oil&Grease	TOC	Zine	Copper	_	Nickel	_		
>1500TPHmg/I	<5000mg/l	Checkmg/I	Check _n	ıg/l	<u>Check</u> r	ng/l		
SECTION 4: Physical P	sical and Chemical D	ata						
	CONVERDATERY				<u> </u>		Units	
	waste consists of the	e following materials		Ranges a	re accept	able	or %	
Metal Scale				70-100			%	
Water				0-30			%	
Level D PPE	ched Supporting Do	numants		-				
			_					
List all documents [CLP Analysis	, notes, data, and/or :	analysis attached to this t	form as part	of the waste	approval	package	.	
SECTION 7: Inco	mpatibilities							
-	apatibilities (if any):							
vone	upatiomities (ii any):							
SECTION 8: Gen	erat <u>or's Knowledge</u> I	Documentation						
Laboratory analys generator knowled		vaste characteristics, liste	ed below, W	AS NOT PEF	RFORME	D based	upon the follo	owing
TCLP Metals:								
TCLP Volatiles:	-							
TCLP Semi-Volati	les:							
Reactivity: Corrosivity:								
Ignitability:								
	*							
SECTION 9: Gen	erator's Certification	l						
attached description omissions of compo	n is complete and accosition properties exis	d on generator knowle curate to the best of my t and that all known or su escribed by this document	knowledge a uspected haza	nd ability to	determine	e that no	deliberate or	willf
Authorized Signat	ire:	à mulis		Date	e: <u>03/11/0</u>	<u>)8</u>		
Printed Name/Title		ordinat	00					
CES USE ONLY (DO I	OT WRITE IN THIS SP	ACE)						
Compliance Officer	_	Chay of						
Date: <u>3-76-08</u>	(Ap)	proved Rejected						
	7100	-						

Organics Subcategory: Subpart C

Solvent-bearing wastes

Byproduct waste glycol Wastewater from paint washes

Off-specification organic product

Contaminated groundwater clean-up from non-petroleum sources

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

Landfill leachate

Still bottoms

P.004

CES ENVIROMENTAL

7137400664

P.005

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
 - (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

\boxtimes	Metals Subcategory
	Oils Subcategory
	Organics Subcategory

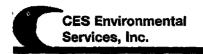
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Air Machine w/Operator \$105/hr Field Techs @ \$30/man/hr Disposal @ .65/gal (\$450 Min)
2.	Contamination Limits (maximum limit before surcharges apply):
	NA City Metal limits
3.	Surcharge Pricing:
	NA Surcharge for metals exceeding permit limits.
4.	Special Testing Requirements:
	Test City Metals on aqueous phase check TOC on aqueous phase, wheth for TSS and phenols &pH on the water phase
5.	Treatment and Handling Protocol:
	Liquids portion goes through waste water treatment metals like shawcor water stream Solids will go out as Class 1 waste
6.	Treated Wastewater Discharge Subcategory:



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	Tests for Product Recovered/Recycled (if applicable):	
	Na	
		•
8.	Management for Product Recovered/Recycled (if applicable);	
8.		- 17.
8.	Management for Product Recovered/Recycled (if applicable): Na	
8.		
8.		
8.		

LABORATORY TEST RESULTS

Job ID :

95441

Date 1/3/2008

Client Name: Houston Plating Company, LLC

Project ID: Not Neutralized Combination Cleaner & Electo Clean

Attn: Joseph Stankovich

Date Collected:

Client Sample ID: Not Neutralized Combination Cleaner & Electo Cleaner-1315 Georgia-Container #1,#2 & #3

Job Sample ID: 95441.01

12/20/07

Sample Matrix Liquid

Time Collected: 10:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Lim	it Reg Li	mit Q	Date Time	Analy
W-846 1010	Ignitability (Flash Point) Ignitability	>150	٩F	1				12/31/07 12:30	KS
W-846 6010C	TCLP Metals			Magazi Milazi					
i gigaldada melantishi bermali 1911	Antimony	0.102	mg/L	1	0.1	1	v 1920 S. (AZD.)	12/28/07 13:36	RB
	Arsenic	0.499	mg/L	1	0.1	1.8		12/28/07 13:36	RB
	Barium	0.469	mg/L	1	0.1	100.0		12/28/07 13:36	RB
	Beryllium	BRL	mg/L	1	0.08	0.08		12/28/07 13:36	RB
	Cadmium	BRL	mg/L	1	0.1	0.5		12/28/07 13:36	RB
	Chromium	0.146	mg/L	1	0.1	5.0		12/28/07 13:36	RB
	Lead	BRL	mg/L	1	0.1	1.5	12 12.19	12/28/07 13:36	RB
	Nickel	BRL	mg/L	1	0,1	70		12/28/07 13:36	RB
	Selenium	BRL.	mg/L	1	0.5	1.0		12/28/07 13:36	RB
	Silver	BRL	mg/L	1	0.1	5.0	1454 •	12/28/07 13:36	RB
	Vanadium	BRL	mg/L	1	0.1	30		12/28/07 13:36	RB
W-846 7.3									
wordyntaly ill a	Reactive Cyanide	BRL	mg/L	1	25	s ss.t. =gerjejt7t	ungs til Meller	12/21/07 14:50	KS
W-846 7.3	Colored Maria Colored							A LOUIS BOOK AND A STATE OF THE	
	Reactive Sulfide	BRL	mg/L	1	25	ili wytt	. p m. 77 .F),•	12/21/07 14:50	KS
W-846 7470A	TCLP Metals, Mercury	Total Control							
AA DAO KAYON	Mercury	BRL	mg/L	1.6.17136	0.002	0.2	orana ya ya kara kara kara kara kara kara ka	12/27/07 15:08	RB
W-846 8260B	TCLP VOC	yayahir c				n Iri		atorayeters.	
VV-540 840UB	1,1-Dichloroethylene	Mir (Madeller) BRL	mg/L	1	0.13	0.6		12/26/07 18:21	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5	٠	12/26/07 18:21	HW
	1.4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		12/26/07 18:21	HW
	Benzene	BRL	mg/L	1	0.13	0.5		12/26/07 18:21	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5		12/26/07 18:21	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70		12/26/07 18:21	HW
	Chloroform	BRL	mg/L	1	0.13	6		12/26/07 18:21	HW
	MEK	BRL	mg/L	1	0.13	200		12/26/07 18:21	HW
	Tetrachloroethylene	BRL	mg/L	1	0.15	0.7		12/26/07 18:21	HW
	Trichloroethylene	BRL	mg/L	. 1	0.13	0.5		12/26/07 18:21	HW
	Vinyi Chloride	BRL	mg/L	1	0.1	0.2		12/26/07 18:21	HW
	1,2-Dichloroethane-d4(surr)	96.9	™9/ - %	- <u>.</u>	70-130		•	12/26/07 18:21	HW
	Dibromofluoromethane(surr)	4.77	% %	·	70-130		S6	12/26/07 18:21	HW
	p-Bromofluorobenzene(surr)	108	%	· · · · · · · · · · · · · · · · · · ·	70-130			12/26/07 18:21	HW
	Toluene-d8(surr)	99.6	% %		70-130		•	12/26/07 18:21	HW
Dell'Alland	a margar variancia dell'aggi e grandina di laggi e considerati	99.0 41 / godina	e balanggar	ng (Mas)	igiograficada Talograficada	graph dair			137V 2007 (13
W-846 8270D	TCLP Semivolatiles							ADION (OF A LOC	
	1,4-Dichlorobenzene	BRL	mg/L	4	0.2	7.5	D1	12/27/07 14:22	ML

Page 1 of 2

LABORATORY TEST RESULTS

Date 1/3/2008

Client Name: Houston Plating Company, LLC

Attn: Joseph Stankovich

Not Neutralized Combination Cleaner & Electo Clean

Client Sample ID: Not Neutralized Combination Cleaner & Electo Date Collected: Cleaner-1315 Georgia-Container #1,#2 & #3

Job Sample ID: 95441.01

12/20/07

Sample Matrix Liquid

Time Collected: 10:00

	TO
er uniormation:	

		ring 1714 r. isres	July Lad an	indian contant	illo di Brancica	onationatica alcom		ainti arasan s
	Parameter/Test Description	Result	Units	DF	Kpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 8270D	TCLP Semivolatiles	Alexander (
	2,4,5-Trichlorophenol	BRL	mg/L		0.2	400	12/27/07 14:22	ML
	2,4,6-Trichlorophenol	BRL	mg/L	4 	0.2	2	12/27/07 14:22	ML
	2,4-Dinitrotoluene	BRL	mg/L	4	0.2	0.13	12/27/07 14:22	ML
	2-Methylphenol	BRL	mg/L	4 	0.2	200 	12/27/07 14:22	ML.
	3- & 4-Methylphenols	BRL	mg/L	4	0.2	200	12/27/07 1 4 :22	ML
	Hexachlorobenzene	BRL	mg/L	4	0.2	0.13	12/27/07 14:22	MŁ
	Hexachlorobutadiene	BRL	mg/L	4	0.2	-0.4	12/27/07 14:22	ML
	Hexachloroethane	BRL	mg/L	4	0.2	3	12/27/07 14:22	ML
	Nitrobenzene	BRL	mg/L	4	0.2	2	12/27/07 14:22	ML
	Pentachlorophenol	BRL	mg/L	4	5	100	12/27/07 14:22	ML
	Pyridine	BRL	mg/L	4	0.2	4	12/27/07 14:22	ML
	2,4,6-Tribromophenol(surr)	26	%	4	10-120		12/27/07 14:22	ML
	2-Fluorobiphenyl(surr)	40.7	%	4	30-115		12/27/07 14:22	ML
	2-Fluorophenol(surr)	37.4	%	4	15-111	the Mr. Carlotte, 1777 June 1	12/27/07 14:22	ML
	Nitrobenzene-d5(surr)	41.6	%	4	20-120		12/27/07 14:22	ML
	Phenol-d6(surr)	37.5	%	4	15-120	• • • • • • • • • • • • • • • • • • • •	12/27/07 14:22	ML
SW-846 9040C	p-Terphenyl-d14(surr)	43.2	%	4	18-137	17 17 17 PAPER A BANK TO THE TAX THE THE	12/27/07 14:22	ML
	Corrosivity, pH				ander de la companion de la companion de la companion de la companion de la companion de la companion de la co La companion de la companion d		rice ou a company of the second of the secon	
	pH	13.15	s.u.	14.04.04.00.000	::::::::::::::::::::::::::::::::::::::	Temperajaan Asal Selata	12/21/07 15:30	KS
V 100E	Total Retroleum Hydrocarbons	twiki kata			A.A.Arringalai A.A.Arringalai	rate Phia a Lindriche, en che y Well Na chia mate das prints per come nglandigia glatang di Paris da Sanco		
Vandamin	C6-C12	BRL	mg/L	10	13.2		12/26/07 18:02	HK
	>C12-C28	241	mg/L	10	37.1		12/26/07 18:02	HK
	>C28-C35	286	mg/L	10	23		12/26/07 18:02	HK
	Total C6-C35	527	mg/L	10			12/26/07 18:02	HK
	A STATE A STATE OF THE STATE OF		///g/L		62-121	 S4	12/26/07 18:02	HK
	1-Chlorooctane(surr)	N/A		10			The state of the second section and the second sections of the second section and the second section and the second section and the second section as a section as a section as a second section as a section as a section as a section as a section a	
	Chlorooctadecane(surr)	. N/A	%	10	62-121	S4	12/26/07 18:02	HK

Method:

Job ID: 95441

Date:

1/3/2008

Analysis :

SW-846 7.3

Reporting Units: mg/L

QC Batch ID : Qb07122116

Created Date: 12/21/07

Created By : Ksudha

Samples in This QC Batch: 95441.01

Sample Preparation: PB07122617

Prep Method: SW-846 7.3

Prep Date: 12/21/07 14:45 Prep By:

Ksudha

	Qual
Reactive Sulfide BRL mg/L 1 25	

AAT	
	Angene de marche de la company de la company de la company de la company de la company de la company de la comp La company de la
QC Sample ID: 95256.01	NATION OF THE CONTROL
QCSample Sample	PPD
Parameter Result Result	Units RPD CtrlLinit Qual
Reactive Sulfide BRL BRL BRL	mg/L 20 20

	· · · · · · · · · · · · · · · · · · ·	, emperementale production and a surface and	91., , gay and gaz and a second at the second	The second of th
QC Type: LCS and LCSi			and the fact of the first of th	
	:		and the Control of th	
	LCS LCS	LCS	LCSD LCSD	RPD %Recovery
Parameter				Ctd imit Ctd imit Out
				- CO LEITHE - THE STREET COURSE
Reactive Sulfide	750 640	[85.3 [750]	600 80 6.45	20 40-110



Job ID: 95441

Date:

1/3/2008

Analysis :

Method:

SW-845 7.3

Reporting Units :

mg/L

QC Batch ID : Qb07122118

Created Date: 12/26/07

Created By : Ksudha

Samples in This QC Batch: 95441.01

Sample Preparation: PB07122618

Prep Method: SW-846 7.3

Prep Date: 12/21/07 14:45 Prep By:

Ksudha

	e blande fransk programme skriver i verske programme i begrever fransk Blandfres fransk programme i blande fransk fransk primer i beske fransk fransk fransk fransk fransk fransk fra Bennesiger i blande fransk fransk fransk fransk fransk fransk fransk fransk fransk fransk fransk fransk fransk	D.F. Rottlinit Qual
Reactive Cyanide	BRL mg/L	. 1.1 25 · · · · · · · · · · · · · · · · · ·

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OC Sample ID: 95256.01		
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OCSample	amnia	
Parameter Result	Result Units RPD COLUMN	CHICAGO CONTRACTOR QUAL-
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Reactive Cyanide	BRL; - - mg/L - , , 20	

OC Times I CS and I CSD			Mark Carried Co. Carried Co. Carried Co.
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Reactive Cyanide 5.0	2.95 59 5.0	2.82 56.4 4.51	20 40-110
	I		



Job ID: 95441

Date:

Reporting Units: s.u.

1/3/2008

Analysis : Corrosivity, pH

Method: SW-846 9040C

QC Batch ID : Qb07122613

Created Date: 12/21/07

Created By : Ksudha

Samples in This QC Batch: 95441.01

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Job ID: 95441

Date:

1/3/2008

Analysis : TCLP VOC

Method:

SW-846 8260B

Reporting Units: mg/L

QC Batch ID : Qb07122701

Created Date: 12/26/07

Created By : Whuimei

Samples in This QC Batch: 95441.01

Prep Method: SW-846 5030C

Prep Date: 12/26/07 15:00 Prep By:

Whuimel Bstone

Sample Preparation: PB07122701 TCLP Prep:

PB07122616

Prep Method: SW-846 1311

Prep Date: 12/26/07 15:00 Prep By:

QC Type: Method Blank		Tring a are			
Parameter	CAS#	Result	Units D.F.	RotLimit Qu	ual
1,1-Dichloroethylene	75-35-4	BRL	mg/L 1 1		
1,2-Dichloroethane	107-06-2	BRL	mg/L	[5 0.13] [1] [1] [1] [1] [1] [1] [1]	. : [
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	0.15	
Benzene	71-43-2	BRL.	mg/L	0,13	
Carbon tetrachloride	56-23-5	BRL	mg/L 1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L 1	0.15	
Chloroform	67-66-3	BRL	i i i i i i i i i i i i i i i i i i i	0.13	
MEK	78-93-3	BRL	ing/L". :	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L 1	0.16	12. 1
Trichloroethylene	79-01-6	BRL	mg/L i	0.13	
Vinyl Chloride	75-01-4	BRL	mg/L 1	" O.1	

QC Type: LCS and LCS									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD.	%Recovery
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLImit	CtrlLimit Qual
1,1-Dichloroethylene	0.500	0.526	105	0.500	0.503	101	4.47	25	70-130
Benzene	0,500	0.524	105	0.500	0.521	104	0.57	25	70-130
Chlorobenzene	0,500	0.486	97.2	0.500	0.481	96.2	1.03	25	70-130
MEK	0.500	0.581	116 ···	0.500	0.487	97.4	17.6	25	70-130
Trichloroethylene	0.500	0.520	104	0.500	0.518	104	0.38	25	70-130

OC Type: MS and MSD											[10]
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QC Sample ID: 95441.	Uliman	18 P 4 1 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	was er lag er af Alliniar englise Blindaninger	malek materi (tigal Elementa	in-stilli		777777777777		Mrii Marrie Talla	iFi?
	Sample	MS	MS	MS		MSD	MSD		RPD	%Rec	4
Parameter	Result	Sok Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	Ctril imit Ou	ial
				1 77	1:	1	1				_
1,1-Dichloroethylene	BRL:	0.500	0,953	191		h i. '.i				70-130 М1	. `
Benzene	BRL	0.500	0.532	106			1777			70-130	:
College Branch	BRL	0.500	0.500	100		1: :: :: .		F - 1 1- 1		70 170	
Chiloroperizerie	DKL	0.500	0.300	100)			10-120	:
MEK	BRL	0.500	0.950	190						70-130 M1	•
Trichloroethylene	BRL	0.500	1.12	224		1				70-130 M1	•



Digestion:

TCLP Prep:

Job ID: 95441

Date:

1/3/2008

Analysis : TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units:

mg/L

Prep Method: SW-846 1311

Created By: Rbairamadgi

Samples in This QC Batch: 95441.01

PB07122715

PB07122616

Prep Method: SW-846 7470A

Prep Date: 12/27/07 08:15 Prep By:

Prep Date: 12/26/07 15:00 Prep By:

Rbairamadgi **Bstone**

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1	Oc. Type: Method Blank
1	The state of the s
ı	QC Type: Method Blank Parameter CAS # Result Units D.F. RptLimit Qual
	Marcing 743.07.5 RBI 900/

LCS LCS LCSD LCSD RPD %Recovery Parameter Spk Added Result % Rec Spk Added Result % Rec RPD CtrlLimit CtrlLimit Qual	QC Type: LCS and LCSD		Listen and the second of the s
	The state of the s		
		LCSD LCSD LCSD	LCSD RPD %Recovery
		0.0052 104 0.005 0.0052	

QCType: MS and MSD
QC Type: MS and MSD
QC Sample 1D: 95408.01
QCSample 1D: 95408.01
QC Sample 1D: 95408.01 95408.01 Sample MS MS MS MSD MSD MSD RPD %Rec MSD MSD RPD %Rec
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Parameter: Result Spk Added Result % Rec. RPD CtrlLimit CtrlLimit Qual
Parameter :: "% Kec :: Spk Added :: Kesuit :: Spk Added :: Kesuit :: 196 Kec :: Kesuit :: 196 Kec :: Kesuit :: 196 Kec :: Kesuit :: 196 Kec ::
Mercury 11 1 BRL 1 0.005 0.0052 104 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Job ID: 95441

Date:

1/3/2008

Analysis: TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units:

mg/L

QC Batch ID : Qb07122721

Created Date: 12/27/07

Created By : Mii

Samples in This QC Batch: 95441.01

Extraction: TCLP Prep :

PB07122703 PB07122616 Prep Method: SW-846 3510C Prep Method: SW-846 1311

Prep Date: 12/27/07 08:00 Prep By: Prep Date: 12/26/07 15:00 Prep By:

Bstone

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QC Type: Method Blank	: 7 - 7 - 7 - 7 - 7 - 6 - 6 - 6 - 6 - 6 -									
	- Compression (1989) Block (1994) Block (199		d for Planet British bilay: Bully 20 James Pope Bull 1997 Bully 2015 Bull 1997					400000000000000000000000000000000000000		
Parameter	-CAS#	Result	the Units		D.F.	RptLimit				Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L		<u> 1</u>	0.05	i	4 1 1		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	:	1	0.05				
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.05				
2,4-Dinitrotoluene	121-14-2	BRL	mg/L		1	0.05				: " : .
2-Methylphenol	95-48-7	BRL	mg/L		: 1	0.05	i ,			
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	· · :.	1	0.05		::::::::::::::::::::::::::::::::::::		
Hexachlorobenzene	118-74-1	BRL	mg/L	:	1	0.05	i, i. i	`		5.5.7.5
Hexachlorobutadiene :::	87-68-3	BRL	mg/L		- 1	:: .0.05	:: i: : :		-	
Hexachloroethane	67-72-1	BRL	mg/L		· 1	0.05				
Nitrobenzene	98-95-3	BRL	mg/L		T., 1 ::. :	0.05				
Pentachlorophenol	87-86-5	BRL	mg/L		1	1.25			: "	
Pyridine	110-861	BRL	mg/L		1	0.05	:::. :::			1 1 1 1 1

QC Type: LCS and LCS			1:11:1 rd 1:1:1 	21.14.1.1111.1.1.1.1.1.1.1.1.1.1.1.1.1.1				Angree Birton		
	LCS	LCS	ics	LCSD	LCSD	LCSD	1.4.1 (200 PH) (1.7.1) (1.1.4.1) (1.7.1) (1.7.1) (1.1.4.1) (1.7.1) (1.7.1) (1.7.1) (1.7.1) (1.7.1)	RPD	%Recovery	
Parameter	Spk Added	Result	:: % Rec::	Spk Added	Result	% Rec	RPD	CtrlLimit-	CtrlLimit	Qual
1,4-Dichlorobenzene	0.250	0.143	57.2	0.250	0,144	57.6	0.69	35	24-134	
2,4,5-Trichlorophenol	0.250	0.147	58.8	0.250	0.152	60.8	3,34	35	6-115	
2,4,6-Trichlorophenol	0.250	0.133	53.2	0.250	0.128	51.2	3.83	35	40-138	
2,4-Dinitrotoluene	0.250	0.144	57.6	0.250	0.130	-52	10.2	35	32-114	""
2-Methylphenol	0.250	0.141	56.4	0.250	0.138	55,2	2.15	35	6-132	
3- & 4-Methylphenols	0.500	0.262	52.4 ::	0.500	0.257	51.4	1.93	35	29-132	·
Hexachlorobenzene	0.250	0.153	61.2	0.250	0.161	64.4	5.10	35	44-142	
Hexachiorobutadiene	0.250	0.125	50	0.250	0.127	50.8	1.59	35	20-124	
Hexachloroethane	0.250	0.146	58.4	0.250	0.142	56.8	2.78	35	14-136	
Nitrobenzene	0.250	0.160	64	0.250	0.156	62.4	2.53	35	38-146	
Pentachlorophenol	0.250	0.153	61.2	0.250	0.134	53.6	13.2	35	25-125	
Pyridine	0.250	0.094	37.6	0.250	0.086	34.4	8.89	35	6-112	• • • •



Job ID: 95441

Date:

1/3/2008

Analysis: Total Petroleum Hydrocarbons

Method:

TX 1005 Reporting Units:

mg/L

Created By : Hkhuc

Samples in This QC Batch: 95441.01

Sample Preparation: P807122804

Prep Method: TX 1005

Prep Date: 12/24/07 10:00 Prep By:

Hkhuc

QC Type: Method Blank Parameter	Result	. A. M. 1. C. I. I. C. C. L. 1. T. T. N. D.		
C6-C12 >C12-C28 >C28-C35 Total C6-C35	BRL BRL BRL BRL	mg/L mg/L mg/L mg/L	1 1.32 3.71 2.3 1 2.3 1	

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Parameter Spk Added Result % Rec Spk Added Result % Rec RPD CtrlLimit CtrlLimit	
-106÷C12 1: 1 1: 1 43 1· 44.8 1· 1041· 43··· 1· 45: 1 105 1 0.44*; 1 : 1 : 1 : 20 : 1 1 : 75-125 105 1 : 105	
C6-C12	
C6-C12 43 44.8 104 43 45 105 0.44 20 75-125	4
	4
>C12-C28 43 47.2 110 43 46.2 107 2.14 20 75-125	4
>C12-C28 : : : : : : : : : : : : : : : : : : :	
-1>C12+C28+++++++++++++++++++++++++++++++++	4 '
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	4
>C28-C35:	
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QC Type; MS and MSD QC Sample ID; 95452.01 Sample: MS MS MSD MSD MSD RPD Parameter Result Spk Added Result % Rec Spk Added Result % Rec RPD CtriLimit	-®Rec Ord int:Oual
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	75-125
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>C28-C35	75-125

QUALITY CONTROL CERTIFICATE

Job ID: 95441

Date:

1/3/2008

Analysis: TCLP Metals

Method :

SW-846 6010C

0.5

0.1

Reporting Units : mg/L

QC Batch ID : Qb07122811

Created Date: 12/28/07

Created By: Rbairamadgi

7782-49-2

7440-22-4

7440-62-2

Samples in This QC Batch: 95441.01

Digestion: TCLP Prep:

Selenium

Vanadium

Silver

PB07122806 PB07122616 Prep Method: SW-846 3010A Prep Method: SW-846 1311

BRL

BRL

BRL

Prep Date: 12/28/07 08:00 Prep By:

Prep Date: 12/26/07 15:00 Prep By:

Rbairamadgi

Bstone

OC Type: Method Blank					
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					indiana in include in the control of
Antimony ::: :: : : : : : : : : : : : : : : :	7440-36-0			0.1 1 1 1	
Arsenic	7440-38-2	BRL mg/L		0.1	
Barium	7440-39-3	BRL mg/L	5 7 4 7 5 3 7 7 7 7 8 8 8	0,1	
Beryllium	7440-41-7	BRL: mg/L		0.08	. Tima ka kikana dii kada
Cadmium	7440-43-9	BRL mg/L		0.1	
Chromium:	7440-47-3	BRL mg/l		0.1	
Lead	7439-92-1	BRL mg/L	at at i de i i i i i i i i i i i i i i i i i	0.1	
Nickel	7440-02-0	BRL ma/L	17.1	0.1	

mg/L

mg/L

mg/L

QC Type: LCS and LCSI	Chile than and the			rinne e e irreidu	0111-07 P. 7	18887 1876-			· Silver on which with the province	
								anarrakai Milippakai		
		LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Antimony	1	0.997	. 99.7	. 1	1.03	103	3.26	- 20	80-120	
Arsenic	1	1.02	102	Ta 1 14 1 15	1,06	106	3.85	20	80-120	
Barium	1	1.01	101	1000	1.05	105	3.88	20	80-120	
Beryllium	1	0.929	92.9	1	0.944	94.4	1,60	20	80-120	
Cadmium	$i \cdot i \cdot j$	1.04	104	1. 1. "	1.07	107	2,84	20	80-120	1
Chromium	i i	0.903	90.3	11	0.928	92.8	2.73	20	80-120	1 : . : 1
Lead:	1	0.908	90.8	1	0.923	92,3	1.64	20	80-120	
Nickel	1	0.917	91.7	1	0.939	93.9	2.37	20	80-120	
Selenium	T. 1775	1.01	101	1	1.06	106	4.83	20	80-120	1
Silver	1	0.954	95.4	1	0.982	98.2	2,89	20	80-120	
Vanadium	111111	0.930	93	1	0.958	95.8	2.97	20	80-120	[

QC Type: MS and MSD			Marera.a.a. r		11. g			40.000	
QC Sample ID: 95408	.01			, 1					
Parameter	Sample	MS Spk Added	MS Result	MS % Rec	MSD	MSD:	MSD % Rec	 RPD CtriLimit	%Rec
Antimony	BRL	2	2.05	103					70-130
Arsenic	BRL	2	2.10	104		* * *		 	45-138
Barium	0.270	2	2.25	99					39-135
Beryllium	BRL	2	1.91	95.4				 	70-130
Cadmium	BRL	2	2.03	102					56-125
Chromium	0.739	2	2,60	93.1				 ···	52-125
Lead	BRL	2	1.84	92	·				55-125

Page 8 of 10

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID: 95441

Date:

1/3/2008

Analysis : TCLP Metals

Method :

SW-846 6010C

Reporting Units: mg/L

QC Batch ID : Qb07122811

Created Date: 12/28/07

Created By: Rbairamadgi

Samples in This QC Batch: 95441.01

QC Type: MS and MSD					
QC Sample ID: 95408.	01 Sample MS	MS MS	MSD MSD MS	n Ren	0/086
Parameter		Result % Rec	Spk Added Result % J	Rec RPD Ctriumit	CtriLimit Qual
Nickel	5.12	6.92 90			70-130
Selenium	BRL 2	2.09 102 1.95 97.5			70-130 26-148
Vanadium	BRL 2	1.92 96			70-125

QUALITY CONTROL CERTIFICATE



Job ID: 95441

Date:

1/3/2008

Analysis : Ignitability (Flash Point)

Method:

5W-846 1010

Reporting Units: °F

QC Batch ID: Qb07123114 Created Date: 12/31/07

Created By : Ksudha

Samples in This QC Batch: 95441.01

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QC Sample 1D: 95441.01	
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Parameter Result	
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Ignitability >150	
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Parameter Sp				
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[Ignitability				

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID:

Date: 1/3/2008

General Term	Definition		
Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wit	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
/tVV	Molecular Weight		
Qualifier Defin	ltion		
D1	Sample required dilution due to matrix effects.		
11	MS/MSD recovery is high, LCS/LCSD recover	y is acceptable.	
34	Surrogate not available due to dilution of samp	ole extract for quantifica	tion.
6	Surrogate recovery is outside control limits du	e to matrix effects.	

A & B Labs C	hair	n of C					The	Chai	n of	Cus	tody	is a I			imen			Page /	of J
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713-453-6060 713-453-6091 Fax	Addres	s: <u>P.C</u> LHOUST) (3 z				/ ~>~	Ad	ldres	S		o. B ran	<u> </u>	7,	8		4, 1	Numaround Tim	e (Business Day
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A&B JOB ID # 0 5 44	Phone	713	. 946	-8	120			Ph	one:		71 3	- 91	16-	872	•		□а	Days* Sur	charge applies
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cleaner-1315 Georgia											-	^p resen oH-Lab	****					- 6	
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8. Sampler's Name & Company (PLEASE ARI	V.,	. W.	It.	//		سرم	D.			ō		J.)	(U)	/ /	/_	/	III	
LABUSE 9. Sample ID and Description/	/	16 Safe		11	12		7 22 3	trix		Įž			/s*	753	/_	人	/		
	/	Date	Time	Guid	Vater	Soil	Sludge	ō เ	ŧ į		1/	Δγ,	1	٧/	1/4	٩¥		/ 18. REM	Knize
JA Wort Neutralized Combination		12-20-07	10,00	7-			S			71	17	70	\hat{z}			Y	<i>[</i>	Tioux	Hammala Industrian dinks be believe the
cleaner + electroclean			-																
1315 6 e o (g 1 a					-			4	Ц,		Į.					72			
Container#1					-				المت				٠	# - 3 :					
MONOT Neutralized combine		12-20-07	10100							10					7				1-4-126
cleanest electrocles		1-20-01	AM		-											نتر ا	1 -	IIQUJA SAMP	leon ICE
1315 Gtorgia					_		+	٠		٠,		-			-		-	+	
Containers #2+#3				ابر			L					-		-		-	ا		
19. RELINQUISHED BY		DATE 1	TIME	20/ FI	CENT	ים חב							ad water	xTd	l on	ME I	oo ki	NOWN HAZAFID	COMMENTS
Work Her hours		2-21-07	MAIC	V	00	//	5 Ó	∂_n	n	RI			12/2	21/6	12	770	AC.	011051	2
2				1	N VE	A.			711	7			17				74/1	1 10	
8				21. RE	CEIVE	ED BY	LAB	ORATO	RY;								Tempt	erature: U	°C
*Containers: VOA - 40 ml viel A/G - Amber/Glass 4 oz/8 oz - glass vide mouth P/O Plastic/other	1 Liter			**Ртвээ	vatives	C OH	Cool - NaO	н Н Т	- HCI - Ne,	5,0,	N - HI X - QI		s - H ₂ sx), i				Y)or N	
METHOD OF SHIPMENT Delivered by	~ 3P	9			OF L	ADIN	G/TF	TACKI			2.5	177	45				Plea	A&B cannot accept se FAX written chan	ges to 713-453-609
Series and Ottobal County The County of the	, TICHNIA																	mples will be dispos & B reserves the righ	

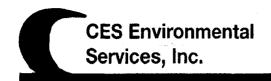
Sample Condition Checklist



Date: 12/21/07

A&E	JobID :	95441			ate Received	: 12,	/21/2007		Time	Received :	02:00 P	M	
Clie	nt Name :	Houston	Plating	Compan	y, LLC								
Tem	perature :	0.9°C		Sa	ample pH:	N/A	A						
					Albina kairitaekt	neck P	THE STREET STREET					Yes	No
1.	Cooler sea	l present a	nd signe	d.								×	
2,	Sample(s)	in a coole	r,									х	
3,	If yes, ice	in cooler.										х	
4.	Sample(s)	received v	vith chai	n-of-custo	dy.							х	
5.	C-O-C sign	ed and dat	ted.									х	
6.	Sample(s)	received v	vi th sign	ed sample	custody se	aí.						х	
7.	Sample co	ntainers ar	rived int	act. (If no	comment).							х	
8,	Matrix :	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
ν,		Ø											
9.	Sample we	re receive	d in appr	opriate co	ntainer(s).							Х	
10.	All sample	s were log	ged or la	beled.								Х	
11.	Sample ID	labels mat	tch C-0-0	C ID's							·	Х	
12.	Bottle cou	nt on C-O-C	2 matche	s bottles 1	found.							Х	
13.	Sample vo	iume is suf	ficient fo	x analyses	s requested.					. <u></u>		Х	
14.	Samples w	ere receive	ed within	the hold	time.							Х	
15.	VOA vials	ompletely	filled.									Х	
16.	Sample ac	epted.								·		Х	
Com	ments : Ind	ude action	s taken t	o resolve	discrepancie	s/prob	lem:		·				
								•					
													<u></u>
		4: NA - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 1											
Recei	ved by: R	gamez					Check in	by/date:	Rgamez /	12/21/2007			
one	: 713-453-6	060								wv	vw.ablabs.	com	

Port of Howstern 2671



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/26/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2671

Expiration Date 3/26/2010

Generator: Port of Houston Authority-Babours Cut Terminal

Address: 1819 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Used antifreeze TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: .8-1

Odor: 8

pH: 7-10

Physical State:

Incompatibilities: oxidizers, strong acids, bases

Safety Related Data/Special Handling:

level D

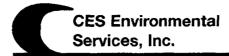
If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

BHOK



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

GB

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene					
Company:	Port of Houston Authori	ty (Tellepsen Fireboat)			
Address:	1819 E. Barbours Cut B	vd.			
City, State, Zip:	City of Morgans Point, 7	CX 77571			
Contact:	Roxana Herrera		Title:	Manager	
Phone No:	713-670-2814		Fax No:	713-670-2	2827
24/hr Phone:	713-676-1460				
U.S. EPA I.D. No: 7	† CESQG			11	
State I.D.	CESQG		SIC Code:	NVT	
	g Information – Same Port of Houston Authority	as Above	-	4	
Company:		111 East Lass Marth			
Address:	Environ mental Affairs	111 East Loop North	 		
City, State, Zip:	Houston, Texas 77029	m. i			
Contact:	Roxanna Herron	Title:	712 (70 2427		
Phone No:	713.6702463	Fax No:	713.670.2427		
	ral Description of the Was	<u>te</u>			
Name of Waste: Us Detailed Description	ed Antifreeze n of Process Generating W	aste: Equipment fluid c	changes		
Physical State:	☑ Liquid☐ Solid☐	Sludge	Powder Combination	Į.	
Color: Yellowish/gre	een Odor:	glycol like			
Specific Gravity (w	ater=1): <u>.80-1.0</u>	Density: 8 lbs/gal			
Does this material c	ontain any total phenolic	compounds? 🗌 Yes	⊠ No		
Does this material c	ontain any para substitute	ed phenolic compounds	? ☐ Yes ⊠	No	
Layers:	Single-phase	☐ Multi-phase			
Container Type:	⊠ Drum □	Tote \square	Truck		Other (explain)
		1010	Huck		other (explain)
Container Size:	<u>55 Gal</u>				
Frequency:	☐ Weekly ☐	Monthly 🛛	Quarterly		Yearly
		_			
Texas State Waste	Code No: NA-Rec	yclable Material			
Proper U.S. DOT S	himmin - Nomes	Non-RCRA/Non-DOT	regulated Mate	rial	
	nipping Name:	THOM REGISTRON DO I	regulated ividio	1 1041	

Flash Point	рH	Reactive Sulfides	Reactive Cy	anides Solids	
<u>>200 F</u>	<u>7-10</u>	<u>O</u> mg/l	<u>O</u> mg/l	<u>2-4</u> %	
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil	0-5	%
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. <u>Level D</u>

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, stong acids and bases

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:

Reactivity:

Approval Number:

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics,	listed below,	WAS NOT	PERFORMED b	pased upon the f	following
generator knowledge:					

Corrosivity:	Δ
Ignitability:	X
- g	
SECTION 9: Generato	r's Certification
The information contained	ed herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and
attached description is c	omplete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition	n properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

Authorized Signature:

Printed Name/Title: Poxana Herrere Prog. Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Problem Rejected

Approved Rejected

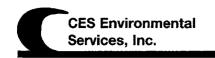
2

<u>SE</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	Is Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

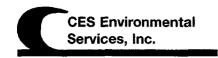
(1)	If the v	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



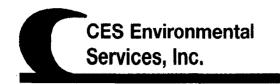
Ι.	base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
2	Sunahaura Duiainea
3. 	Surcharge Pricing: NA
	NA .
l	
4.	Special Testing Requirements:
	NA Test for glycal concentration.
Į	
5.	Treatment and Handling Protocol:
	Glycol Recycling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	Ethylene Glycol
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable); Glycol Recycling
8.	
8.	
8.	

Econo Rail 2672 2672

3-31-08 COP:00 to KOND BAD



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/26/2008

Dear Kevin White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2672

Expiration Date 3/26/2010

Generator: Econo Rail
Address: 210 Portwall st

Houston, TX 77029

Waste Information

Name of Waste: Dirt and oil TCEQ Waste Code # CESQ3011

Container Type:

roll off box

Detailed Description of Process Generating Waste:

Dirt, oil, and debris from cleanup of a spill

Color: black

Odor: hydrocarbon

pH: 7.4

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. B

CES Environmental Services, Inc.

5 B

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

(713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General	ator Information	\sim			
Company:	ECON	TAIL			
Address:	210 F	ortwall			-
City, State, Zip:	Nousten	<u> 77.</u>	11029		
Contact:	MRIS LY	E		TOREMAN	
Phone No:	713-208-	7384	Fax No:		
24/hr Phone:	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
U.S. EPA I.D. No:	NA			0/ 1	
State I.D.	(956 6		SIC Code:	NA	
SECTION 2. Dilling	Information - Sam	o as Abovo			
Company:	Va ert	VIR CUL	UENTAL		
Address:	122 1	C PARTIL	uc/9/10-		
City, State, Zip:	CANLISTON	7 70	1129		
Contact:	KININ WHO	Title:	SALCO	CREP	
Phone No:	112-1075	737/0 Fax No	7/3-25	5-17/1	
SECTION 3: Genera	al Description of the W	aste			
					
Name of Waste: D	IKI + VIC	•		P	x^
Detailed Description	of Process Generating	Waste: Dint チ	ز ۱۱۵۰ م طحالان	from cleanop	04
			_		Spill
Physical State:	Liquid [Sludge	Powder		•
	Solid [Filter Cake	Combination		
Color: BLACK	Odo	r: 4/DROC	ARBON C	RDEN	
Specific Gravity (was	cer=1): <u>%</u>	Density:	l os /gal		
	ntain any total phenoli		, ,		
Does this material co	ntain any para substitu	ited phenolic compo	unds? 🗌 Yes 🔼	No	
Layers:	Single-phase	Multi-phase	e		
Container Type:	Drum [Tote	☐ Truck	Other (explain)	
Container Size:	Joyen Ri	XCC_01-P			
Frequency:	☐ Weekly, [Monthly	☐ Quarterly	Yearly	
Number of Units (cor	7	Other:	<u></u>		
•		ESQ-361	1		
Texas State Waste C			1/		
Proper U.S. DOT Sh	ipping Name:	Non	, RERA/NO	toot (legy lake 1) lake	rial
Class:	UN/NA:	NA	PG: NA	RQ:	A
- /		1	į	f	

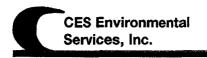
	,				
Flash Point OVEN ZOO	7.4 200	Reactive Sulfides	Reactive Cyani	des Soli	ids D %
Oil&Grease	TOC /	Zinc M M mg/l	Copper	Nickel mg/l	WA
SECTION 4. Physic	ical and Chemical D	ata	/ //	,	
SECTION 4: Thys	COMPONENT			ncentration	Units
The	waste consists of the	following materials		s are acceptable	
DIRT					90
01					10

,,,,,,,,					
SECTION 5: Safet	v Related Data				
		e use of special protectiv	e equipment, please ex	plain.	
SECTION 6: Attac	thed Supporting Doc	uments			
List all documents,	notes, data, and/or a	malysis attached to this f	form as part of the was	te approval paci	kage.
- and	MSTS	•	-		_
SECTION 7: Incom	npatibilities				
Please list all incom	patibilities (if any):				
- N/A					
SECTION 8: Gene	rator's Knowledge I	Documentation			
Laboratory analysis generator knowledg		aste characteristics, liste	d below, WAS NOT Pl	ERFORMED ba	sed upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatile Reactivity: Corrosivity: Ignitability:	NIX COM	es limits third per analogical per analogical per analogical per a	lytical lytical nalytical		
SECTION 9: Gene	rator's Certification		. 0		
attached description omissions of compo	is complete and acc sition properties exist	t and that all known or su	knowledge and ability aspected hazards have b	to determine that een disclosed. I	certify that the above and t no deliberate or willful certify that the materials
Authorized Signatu	re: <u> </u>	CK FOR	Cono Naus	ite: 47	108
Printed Name/Title	t control of the state of the s				
	OT WRITE IN THIS SPA	ACE)			
Compliance Officer:	Robert	The			
Date: 3-2	6-08 (App	proved Rejected			
Approval Number:	2672		•		

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge? YES NO
If'	Yes', complete this section.
PL.	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta.</u>	Is Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils &	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources



1.	Base Pricing (including freight):
	8 45/W +-romx +- 5 C
2.	Contamination Limits (maximum limit before surcharges apply):
	general en en en en en en en en en en en en en
3.	Surcharge Pricing:
4.	Special Testing Requirements:
7.	Special results requirements.
5.	Treatment and Handling Protocol:
	(Application (Class 1)
	(Clos)
	e wy
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



Tests for Product Reco	vered/Recycled (i	f applicable):				
Management for Prod	ict Recovered/Rec	ycled (if applica	ıble);			
The state of the s	. The Alexander of the second	Control of the contro	manager at the control of the contro	the second second second second second second second second second second second second second second second se	and the second of the second o	
			•			

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Express Laboratories	Pageof	Address: 223 M Car					Ì	Addre	ss:	23		M	لاس	4,	Dr.				Shipment Sealed?		Samples S	Sealed? No
01 North 11th. S	ESS LABORATORIES, INC. St. / La Porte, Texas 77571-3	115 City 100.	c	State: 702	29	Zip:	ľ	City: 1/03. 74. 770 29							Received on Ice?		Samples I	ntact? No				
281) 471-0951 / Fax: (281) 471 - 58	821 / After Hours: (281) 844-2	2308 Fax: 713-25	60-39 5-1761	67				Phone Fax:		ァ. (フ- :	e75` 233`		0)						Cooler Temp. (°C)		?@s N	
-mail: environex	p@aol.com	e-Mail:						PO#:					Quote	¥:					Hold Time OK?			Check OK?
roject Name:	and David	Sampler Remarks:	² Cntr. T		-											-		1	Yes No			o AtA
Project Location: .	-onor Ken 1	4	Number		,							-+							pH Check OK? Yes No I	A	res)	bels Agree?
	uston Portwell]		vative	1002							-	_	\dashv							fitional Ana	
Project No:									5 P	A TC	3	>										
Sampler (Print):	en white	1 .		(C)OMP / (G)RAB	£	F		.			METALS											
Sampler (Sign): (the	1	ž)/ d/	BIEX (BOZTE)	C.SOOFXT)			riles	VOLS	l co I				Ì							
EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	MATRIX	(C)		E	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	¥.	VOLATILES	SEMI-VOLS	RCRA											
63003.01	1) Portwall Dirt	3-13-08			7	7	2															
	2)								·													
	3)				L	_																
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Relinquished By:	Print Name:	Company:	Date:			Tim	e:	Fled	eived	By:	u	og	Print	Name		3	<u>- 1</u>		npany:		ate:	Time:
Relinquished By:	Print Name:	Сотрапу:	Date:			Tim	ie:	Rec	eived	Ву:			Print	Name	ə;			Con	npany:	D	ate:	Time:
	S:Soli W:Water WW:Waste \	Matar SI Shidaa SO Sali	d SE.S.	limen	1.1.	anta:	latrix	Ke	y OB	·Dran-	io O	Lina	ne	leren C		חו וח	num f	laudet	O:Other		···	
	² Contain	er Type Key	u <u> </u>	muent	<u> </u>	वध शि	A. A. A. A. A. A. A. A. A. A. A. A. A. A	varbe		_			-		3	Prese	erva	tive !	Key			
	P:Plastic G:Glass V:VOA Gla	ass O:Other					1		1:	Ice(<4	°C) 2	:HCL	3:H2	SO4 4	4:HN	O3 5	NaOl	H 6:N	laOH+Zn Acetate	7:Na2	S203 8:N	lone

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO:

63003.01

1of 1

Customer: Select Environmental

Sample ID: Portwall Dirt

Environ ID: 63003.01

Project ID: Econo-rail

Matrix: Soil

Sampled: 03-13-08 Received: 03-13-08

Project Loc: Houston Portwall

Type:

Reported: 03-20-08

Charge/P.O.:

RECEIVED BASIS

Reported:

			HECEIVED BY	4515					
ANALYTE /	F	RESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT		METHOD	BY	1	
BTEX									
Benzene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	03-19-08	23:12
Toluene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	03-19-08	23:12
Ethylbenzene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	03-19-08	23:12
Xylenes	<	0.015	mg/kg		0.015	SW846.8021B	DMB	03-19-08	23:12
Total BTEX	<	0.030	mg/kg			SW846.8021B	DMB	03-19-08	23:12
TOT, PET, HYDROCARE	BON								
GRO (Gasoline Range)	<	1,209	mg/kg		1,209	TCEQ 1005.03	DB	03-18-08	13:22
DRO (Diesel Range)		6,090	mg/kg		1,209	TCEQ 1005.03	DВ	03-18-08	13:22
ORO (Oil Range)		4,6 6 9	mg/kg		1,209	TCEQ 1005.03	DB	03-18-08	13:22
TOTAL TPH		10,759	mg/kg		1,209			03-18-08	13:22
RCI			1						i
Reactive Cyanide	<	50	mg/kg	250	50	SW846.7.3.3	LC	03-20-08	
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	rc	03-20-08	08:45
Corrosivity (pH)		7.35	su	=>2; =<12.5		SW846.9045C	LC	03-18-08	13:50
Ignitability	>	160	°F	> 140		SW846.1010M	LC	03-19-08	14:05
METALS (RCRA) - TCLP						SW846.1311	MN	03-13-08	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-17-08	71
Barium		1.47	mg/l	100	0.02	SW846.6010B	JA	03-17-08	21
Cadmium	< .	0.02	mg/l	1.00	0.02	SW846.6010B	JA	03-17-08	
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-17-08	
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-17-08	
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA	03-17-08	
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	JA	03-17-08	
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A	MN	03-17-08	10:00
			L						

Definitions:

TCLP - Toxclsity Charasteric Leaching Procedur TPH - Total petroleum Hydrocarbons

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D

John Keller, Ph.D Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/802	1B MA	TRIX: Soil

ANALYST:	dmb	UNITS:	mg/kg	INO.SAMPLES: 1
ANALISI.	umb	UNITS.	myrny	INO.OAWII EEO.

SAMPLES:	63003.01				
İ					

MATRIX	MATRIX	SPIKE	MS	MS	M\$D	RPD	CCV	MB	QC LIMIT	'S (%)
8030064	RESULTS	ADDED	RESULTS	REC	REC		REC		REC-RANGE	RPD
BENZ	0	394	301	76	84	9	91	0	60 - 120	20
TOL	0	394	310	79	84	7	91	0	60 - 120	20
ETBZ	0	394	306	78	85	8	88	0	60 - 120	20
XYLS	0	1181	958	81	91	11	96	0	60 - 120	20
MTBE	0	394	413	105	104	1	114	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

John Keller

3/20/08

DATE

Lab.Dir./QA-QC Mgr.

ENVIRON EXPRESS QUALITY CONTROL REPORT

	TPH		
ANALYSIS:		IMETHOD:	TNRCC 1005.3

ANALVOT.	al as la	BAATDIV.	0011	LIMITO.		SAMPLES: 17
HANALYST:	dmb	IMATRIX:	SOIL	IUNITS:	mg/kg	SAMPLES: 17

SAMPLES:	SW08-143	SW08-144	63000-01	63000-02	63000-03	63001-01	63001-02
	63001-03	63001-04	63003-01	63011-01	63012-01	63012-02	8030234
	63016-01	63017-01	8030269				

QC SAMPLE	MB	CCV	LCS	MS	MSD	MS-MSD	QC LI	MITS
0.00	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	104%	93%	92%	87%	6%	75-125	20
DRO RESULT	< 50	105%	94%	93%	90%	3%	75-125	20

JOHN KELVER, Ph.D, Lab.Dir./QA-QC Mgr.

DAT

KEY:

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

CCV - Continuing Calibration Verification

MB - Method Blank

LCS - Laboratory Control Sample

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative % Difference

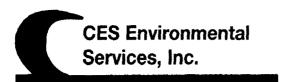
REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS		METHOD:	EPA SW	846/6010	MATRIX:	LIQUID
ANALYST:	JA	DATE:	03.20.08	UNITS:	PPM (mg/l)	NO.SAMPLES:	1
SAMPLES:	63003.01						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	
	63003.01
IMATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	/ITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4.30	86	90	5	91	0	75 - 125	20
Barium	0.00	5	4.35	87	91	5	93	0	75 - 125	20
Cadmium	0.00	5	4.19	84	88	5	96	0	75 - 125	20
Chromium	0.00	5	4.26	85	90	5	93	0	75 - 125	20
Lead	0,00	5	4.28	86	90	5	95	0	75 - 125	20
Selenium	0.00	5	4.48	90	95	6	96	0	75 - 125	20
Silver	0.00	5	4.26	85	90	5	96	0	75 - 125	20



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Daniel Bolden

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2673

Expiration Date 3/31/2010

Generator: Freedom Oil Recovery

Address: 2915 Silent Drive

Sugarland, TX 77478

Waste Information

Name of Waste: Oily water TCEQ Waste Code # Recycle

Container Type:

Detailed Description of Process Generating Waste:

oily water and coolant generted from used oil collection from various locations

Color: varies

Odor: hydrocarbon

pH: 4-10

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

 $\mathcal{D}\mathcal{G}$

SECTION 1: General					
Company:	Freedom Oil Recovery				
Address: City, State, Zip:	2915 Silent Dr. Sugarland, TX 77478				
City, State, Zip:	Daniel Bolden		Title:	Owner	
Phone No:	832-964-4327		Fax No:		l.jenniferbolden@hotmail.com
24/hr Phone:	Same	 			
U.S. EPA I.D. No:	TXR000062299				
State I.D.	A-85846		SIC Code:	NA	
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🗵 Same	as Above	· · · · · · · · · · · · · · · · · · ·		
Contact:		Title:			
Phone No:		Fax No:			
SECTION 3: Genera	al Description of the Was	<u>te</u>		-	
Name of Waste: Oily Detailed Description locations.		aste: Oily water and co	oolant generated	l form used	oil collection from various
Physical State:	☑ Liquid☐ Solid☐	Sludge	Powder Combination	ì	
Color: Varies	Odor:	Other hydrocarb	our		
Specific Gravity (wat	er=1): <u>.9-1</u>	Density: <u>8.1-8.34</u> lbs	/gal		
Does this material co	ntain any total phenolic o	compounds? 🗌 Yes	⊠ No		
Does this material co	ntain any para substitute	d phenolic compounds	s? 🗌 Yes 🛛	No	
Layers:	Single-phase	Multi-phase			
Container Type: Container Size:	Drum	Tote 🗵	Truck <u>1-2000</u>		Other (explain)
Frequency:	⊠ Weekly □	Monthly [Quarterly		Yearly
Number of Units (con	·	Other:	Zami terriy		- vully
Texas State Waste Co	′ -				
		RECYCLE	. N.G., to		
Proper U.S. DOT Shi		Recyclable Oily Water			
Class: Na	UN/NA:	Na	PG: Na		RQ: Na

Flash Point	pH	Reactive Sulfides	Reactive Cya	nides Solids
<u>>200</u>	4-10	<u>O</u> mg/l	<u>O</u> mg/l	0-4%
Oil&Grease	TOC	Zinc	Copper	Nickel
>100mg/l	<5000mg/l	<u> </u>	TB Dmg/l	TBD mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil	1-3	1%
Water	90-99	1%
Coolants	0-10	%
	ļ	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D} \underline{PPE}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	\mathbf{X}
Reactivity:	X
Corrosivity:	X
Ignitability:	$\overline{\mathbf{X}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title: Daniel Bolder	lowner
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Levelun Hanga	
Date: 3-31-08 Approved Rejected	
Approval Number: 2673	

- 3-741-28

SECTION 10: Waste Receipt Classification Under 40 CFR 437
Is this material a wastewater or wastewater sludge? ☐ YES ☐ NO
If 'Yes', complete this section.
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Metals Subcategory: Subpart A
Spent electroplating baths and/or sludges
Metal finishing rinse water and sludges
Chromate wastes
Air pollution control blow down water and sludges
Spent anodizing solutions
Incineration wastewaters
Waste liquid mercury
Cyanide-containing wastes greater than 136 mg/l
Waste acids and bases with or without metals
Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Alkaline and acid solutions used to clean metal parts of equipment
Oils Subcategory: Subpart B
☑ Used oils
Oil-water emulsions or mixtures
Lubricants
∑ Coolants
Contaminated groundwater clean-up from petroleum sources
Used petroleum products
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols
Bilge water
Rinse/wash waters from petroleum sources
Interceptor wastes
Off-specification fuels
Underground storage remediation waste Tank clean-out from petroleum or oily sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C
Stante Subtrictory. Subput C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
Wastewater from adhesives and/or epoxies formulation
2 waste water from organic enterment product operations
Tank clean-out from organic, non-petroleum sources

(1)	n me v	waste contains on and grease at or in excess of 100 mg/L, the waste should be classified in the ons subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excessivalues listed below, the waste should be classified in the metals subcategory.
	Chrom Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, cabove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

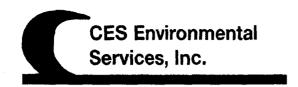
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	.10/gal 2% Solids <5000 TOC + 5.02 for heating
2.	Contamination Limits (maximum limit before surcharges apply):
	Fails Chlor-d-Tect
3.	Surcharge Pricing:
4.	Special Testing Requirements:
į	TOC, Chlor-d-Tect on oil phase. Run pH, TDC, TSS and phenolics on the water phase flat after separating. If this is an emulsim it must be heateled first.
5.	Treatment and Handling Protocol:
:	Separate the Oil Phase before running TOC; Ef this is an emulsion this material must process to the back Oil heating tout.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



	1 ests for Product Recovered/Recycled (if applicable):
	See above
8.	
٠.	Management for Product Recovered/Recycled (if applicable);
•	
٠.	Management for Product Recovered/Recycled (if applicable); Used oil
•	
•	
•	
•	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 3/31/2008

Dear Patricia Hicks

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2674

Expiration Date 3/31/2010

Producer: International Diamond Services

Address: 3420 Pinemont

Houston, TX 77018

Material / Product Information

Name of Material / Product Scrubber caustic solution

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Spent caustic from scrubbers

Color: clear to brown

Odor: pungent

pH: 12-14

Physical State:

Incompatibilities: acids, oxidizers

Safety Related Data/Special Handling:

std PPE (suite)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Ch Codes
This waste is a Hay MA

CES Environmental Services, Inc.

his would have to regular Call G. Lenertz.

4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460 Fax: (713) 6 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 IS

ISWR No: 30900

SECTION 1: Materi	al Producer Informa	tion					
Company:	International Diamond						
Address:	3420 Pinemont						
City, State, Zip:	Houston, TX 77018			-			
Contact:	Patrica Hicks		Title:				
Phone No:	(713) 681-5485		Fax No:				
24/hr Phone:							
U.S. EPA I.D. No:	TXR000027573						
State I.D.	20710		SIC Code:	n/a			
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛛 Sa	me as Above		·			
Contact:		Title:					
Phone No:		Fax No:		·- <u>-</u>			
		Fax No.					
SECTION 3: Genera	al Description of the	Material / Product					
	Name of Material / Product: <u>Scrubber Caustic Solution</u> Detailed Description of Process Generating or Producing the Material / Product: <u>spent caustic from scrubbers</u>						
Physical State:	☑ Liquid☐ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	n			
Color: clear to brown	Od	or: <u>pungent</u>					
Specific Gravity (wat	er=1): <u>1.1</u>	Density: 9.2 lbs/gal					
Does this material con	ntain any total pheno	lic compounds? 🔲 Y	es 🛛 No				
Does this material con	ntain any para substi	tuted phenolic compo	ınds? 🗌 Yes 🏻 🗵	☑ No			
Layers:	⊠ Single-phase	☐ Multi-phase					
Container Type:	☐ Drum	Tote			Other (explain)		
**	Drum		3-5000g		omer (enplum)		
Container Size:			<u>3-3000g</u>				
		•					
Frequency:		☐ Monthly	Quarterly		Yearly		
Number of Units (con		Other:	- *		-		
Transcr of Omes (con		NIT					
		Product					
Proper U.S. DOT Shi	pping Name:	Corrosive liquids,	n.o.s., 8, UN1760, 1	PGII (20%	caustic)		
Class: 8	UN/NA:	1760	PG: II		RQ: na		

Flash Point	pН	N/A	N/A	Solids
<u>>160</u>	<u>12-14</u>			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	0mg/l	<u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
sodium hydrosulfide	0-10	%
sodium hydroxide	10-15	%
water	75-90	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. standard PPE (suit)

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. $\underline{\text{none}}$

SECTION 7: Incompatibilities

Authorized Signature: __

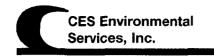
Please list all incompatibilities (if any): acids , Oxida yers

SECTION 8: Material Producer's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

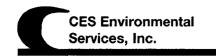
Date: 3/25/08

Printed Name/Title: not required	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 3-31-08 Approved Rejected	
Approval Number: Z674	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

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PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable):



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear **Keith Hove**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2675

Expiration Date 3/31/2010

Generator: LeTourneau Technologies

6401 West Sam Houston Parkway

Houston, TX 77041

Waste Information

Name of Waste: Polymerised varnish resin

TCEQ Waste Code # CESQ4032

Container Type:

tote with sac

Detailed Description of Process Generating Waste:

Unused resin that polymerized in a tank and collected from the cleaning of the tanks

Color: amber

Odor: resin like

pH: neutral

Physical State:

Incompatibilities: bases, oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

M



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 BM

SECTION 1: Gene	mtor Information		
Company:	Letournesu Techno	logies Power Systems (Form	nelly OEM)
Address:		uston Parkway North	
City, State, Zip:	Houston, TX 7704	l	
Contact:	Keith Hoye		Title: EHS-Manager
Phone No:	713-983-4700		Fax No: 713-983-4855
24/hr Phone:	CES-713-676-1460		_
U.S. EPA I.D. No.			A
State I.D.	CESQG		SIC Code: NA
SECTION 2: Billing	g Information - 🛛 Si	ame as Above	
Сомрану:			
Address:			
City, State, Zip:			
Contact:	Attn: Keith Hoys	Title:	
Phone No:		Fax No:	
SECTION 3: Gener	ral Description of the	<u> </u>	
	vmerized Varnish Rea of Process Generativ		t polymerized in a tank and collected from the cleaning of the
han a second	□		` } m
Physical State:	☐ Liquid	Studge	Powder
	Solid Solid	☐ Filter Cake ☐	J ~========
4. 4	_		not this materal longing any
Color: amber	Đ(ior: <u>resin like</u>	Des the manual and and
Specific Gravity (wa	40 mal 1 1 2 0 6	Density: 10 15s/gal VQ	L total phenolic Compands Dires &
opecute Gravity (wa	MI - LJ: LEE VV	Demost A 102 Gr.	man the till the a colo
Layers:	Single-phase	Multi-phase	Does this natural Containy any total phenolic Compands Dres & Does this material Contain any prea substituted phenolic Compands Dres De
Containou Tunes	☐ Drum	Tote	Truck Other (explain)
Contelaer Type:	Diem	T 1000	tote with sack
Container Size:	-		TOTO WILL SCORE
	m Washin	Monthly	Quarterly 🛛 Yearly
Frequency:	Weekly	Other:	₹
Number of Units (co			
Toxas State Waste C	ode No: CES	Q4032	
Proper U.S. DOT Sh	ipping Nawe:	Non-RCRA; Non-DO	
Class: NA	UN/NA	: NA	PG: NA RQ: NA
			(6.44
Flash Point		Reactive Sulfides	Reactive Cyanides Solids
none		2mg/l	Omg/! 100%
Oil&Grease	TOC		Copper Nickel
<1500mg/l	>1500mg/l	Omg/I	Omg/l Omg/l

SECTION 4: Physical and Chemical Data

	1
Ranges are acceptable	or %
90-100	%
0-10	%
	
	·
	90-100

c	D.	CT	TA	N	۹,	Š.	fate	Q.	late	1 D	ntn
-	, 0	L	w		36	20	IBL S		HAUX		-

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS (Raw Material-Liquid Phase)

SECTION 7: Incompatibilities

Please fist all incompatibilities (if any): bases, oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hezardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TČLP Voletiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corresivity:	X
Zgnitability:	X

SECTION 9: Generator's Certification

The information contained berein is based on \(\text{\texts}\) generator knowledge and/or \(\text{\texts}\) analytical data. I haveby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I carrify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Kaith Hoye HSI	5 Coord.
CES USE ONLY (DO NOT WHITE Compliance Officer: Rock Date: 3-31-08 Approval Number:	1	Additional Information:

SECTION 10: Waste Receipt Classification Under 40 CFR 437

X NO Is this material a wastewater or wastewater sludge?

YES

EXT PAGE.

If "	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE N
<u>Metal</u>	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater
d	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orgar</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.			
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.			
	Chrom Coppe	um: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L			
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.			
		Metals Subcategory			
		Oils Subcategory			
		Organics Subcategory			

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	750/704c Trans 700/41 xx50
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	there must be no free liquids.
5.	Treatment and Handling Protocol:
	(1455 It 50/11/5_
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA

MATERIAL SAFETY DATA SHEET

REVISION DATE: DATE OF PRINTING: 03/01/2006

03/01/2006

REVISION NUMBER:

SUPERSEDES MSDS DATED:

12/14/2002

PREPARED BY:

D. M. MELLON

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:

VON ROLL ISOLA USA, INC.

1 W. CAMPBELL RD

SCHENECTADY, NY 12306

BUSINESS: (518) 344-7100 EMERGENCY: (518) 395-3310

3-748-8669

PRODUCT ID:

777C

CHEMICAL FAMILY:

INSULATING VARNISH

CHEMICAL NAME:

CATALYZED POLYESTER UNSATURATED

FORMULA:

MIXTURE

SYNONYMS:

NONE

2. C	OMPOSITIO	N/INFORMAT	ION ON I	NGREDIENTS	
HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT	ACGIH 8 HR. TWA	ACGIH UNIT	OSHA PEL-TWA	OSHA UNIT
Vinyl Toluene 25013-15-4	30 - 60	50	PPM	100	PPM
Silica, Amorphous, Fumed Crystalline-Free 112945-52-5	1 - 5	PARTICULATES: 10	MG/M3	PARTICULATES: 15	MG/M3
Dicumyl Peroxide 80-43-3	0.1 - 1	PARTICULATES: 3	MG/M3	PARTICULATES:	MG/M3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Refer to other MSDS sections for detailed information.

TARGET ORGANS:

Eyes. Respiratory System.

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

Harmful if swallowed. Causes vomiting, nausea, and

PRODUCT CODE:

777C 777C

Page 1 of 8

.09

diarrhea. May cause pulmonary edema,

SKIN CONTACT:

Causes moderate skin irritation.

INHALATION:

Excessive inhalation causes headache, dizziness,

nausea and incoordination.

EYE CONTACT:

Causes mild eye irritation.

AGGRAVATED MEDICAL CONDITIONS:

EFFECTS OF CHRONIC EXPOSURE:

Corneal damage. Pulmonary edema. Evidence of fetotoxicity potential has been reported for vinyl

toluene in a recent intraperitoneal study.

CARCINOGENICITY COMMENT:

This product or one of its ingredients present 0.1% or

more is NOT listed as a carcinogen or suspected

carcinogen by NTP, IARC, or OSHA?

CARCINOGENICITY:

This space reserved for special use.

ROUTES OF ENTRY:

Ingestion. Dermal - skin. Eyes. Inhalation.

OTHER:

None known.

None known.

4. FIRST AID MEASURES

INGESTION:

Do not induce vomiting. Slowly dilute with 1-3 glasses of water and seek medical attention. Never give anything by mouth to an unconscious person.

SKIN CONTACT:

Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if

irritation persists.

INHALATION:

If inhaled, remove to fresh air. 'If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical

attention.

EYE CONTACT:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention immediately after

flushing.

NOTES TO PHYSICIAN:

Aspiration may cause severe lung damage. Evacuate

stomach in a way which avoids aspiration.

FIRE FIGHTING MEASURES

FLASH POINT (F):

113

(C): 45

FLASH POINT METHOD:

Pensky-Martens Closed Cup (PMCC)

PRODUCT CODE:

777C 777C

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IGNITION TEMP (F):

Unknown

(C): Unknown

OSHA FLAMMABILITY CLASSIFICATION:

Combustible Liquid, Class II

FLAMMABLE LIMITS IN AIR - LOWER (%):

FLAMMABLE LIMITS IN AIR - UPPER (%):

5.2

No

SENSITIVITY TO MECHANICAL IMPACT (Y/N):

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is expected;

material has a flash point below 200 F (93

C).

EXTINGUISHING MEDIA:

Alcohol foam. Carbon dioxide. Dry chemical.

Foam. Water mist.

FIRE FIGHTING PROCEDURES:

Vapors may form explosive mixture with air. Combustible. Wear respiratory protection if in a confined area. Cool exposed containers with water spray after extinguishing fire. Positive pressure self-contained breathing apparatus. Polymerization may take place during a fire due to elevated temperature where closed containers could violently rupture. Evacuate area and fight fire from a

safe distance. Organic peroxide.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Warn other workers of spill. Increase area ventilation.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use ground strap and appropriate precautions for dispensing flammable liquids. Recommended storage in original container at temperature below 30 C (85 F). Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Open container cautiously. Use only in a well ventilated area. Caution: Combustible. Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials. Cure only where appropriate ventilation systems exist. Keep away from food and smoking materials. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Exhaust ventilation. Eyewash stations. Use in a well

ventilated area.

PRODUCT CODE:

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Page 3 of 8

09

RESPIRATORY PROTECTION:

Use in a well ventilated area. Use approved NIOSH

respiratory protection if TLV exceeded, or over

exposure is likely.

GLOVES:

Neoprene gloves.

EYE PROTECTION:

Safety glasses.

OTHER PERSONAL PROTECTION DATA: Rubber apron.

· VENTILATION:

Use only in well ventilated area. Mechanical

ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

COMPONENT INFORMATION:

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT		BOILING POINT	VAPOR PRESSURE @ 20 C (mmHg):	VAPOR DENSITY (AIR=1):
Vinyl Toluene 25013-15-4	30 - 60	342	172	1.1	4.08
Silica, Amorphous, Fumed Crystalline-Free 112945-52-5	1 - 5	NOT DETERMINED	NOT DETERMINED	NOT DETERMINED	NOT DETERMINED
Dicumyl Peroxide 80-43-3	0.1 - 1	Decomp. @ 131	Decomp. @ 55	15 @ 38 C	9.30

PRODUCT INFORMATION:

BOILING POINT (F):

NOT DETERMINED

(C): NOT DETERMINED

FREEZING POINT (F):

NOT DETERMINED

(C): NOT DETERMINED

MELTING POINT (F):

NOT DETERMINED

(C): NOT DETERMINED

PHYSICAL STATE:

LIQUID

DESCRIPTION:

AMBER

ODOR:

HYDROCARBON

ODOR THRESHOLD (PPM):

UNKNOWN

% VOLATILE BY WEIGHT:

NOT DETERMINED

EVAPORATION RATE (BUTYL ACETATE = 1):

<1

VAPOR PRESSURE (mmHg @ 20 C):

NOT DETERMINED

VAPOR DENSITY (AIR=1):

NOT DETERMINED

PRODUCT CODE:

777C 777C

09

SPECIFIC GRAVITY @ 25 C (WATER = 1):

ACID/ALKALINITY (MEG/G):

NOT DETERMINED

pH:

NOT DETERMINED

SOLUBILITY IN WATER DESCRIPTION:

NEGLIGIBLE

SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): NOT DETERMINED

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

May occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide. Carbon dioxide. Alcohols. Organic acid vapors. Methane. Acetophenone.

Alpha methylstyrene_

MATERIALS TO AVOID:

Avoid contact with acidic, basic or oxidizing agents. Metal salts such as aluminum chloride.

CONDITIONS TO AVOID:

Keep away from heat, sparks and flame.

...

11. TOXICOLOGICAL INFORMATION

COMPONENT INFORMATION:

Vinyl Toluene 25013-15-4

ACUTE ORAL LD50 (MG/KG):

2,255 (RAT)

ACUTE DERMAL LD50 (MG/KG):

>4,500 (RABBIT) LC50: 3,020 MG / M3 / 4H (MOUSE)

ACUTE INHALATION: OTHER:

Eye and skin irritant.

Silica, Amorphous, Fumed Crystalline-Free 112945-52-5

ACUTE ORAL LD50 (MG/KG):

3,160 (RAT)

ACUTE DERMAL LD50 (MG/KG):

>5,000 (RABBIT)

ACUTE INHALATION:

NOT DETERMINED

OTHER:

NONE

Dicumyl Peroxide 80-43-3

ACUTE ORAL LD50 (MG/KG):

4,100 (RAT)

ACUTE DERMAL LD50 (MG/KG):

NOT DETERMINED

ACUTE INHALATION:

LC50: >224 MG / M3 (RAT)

OTHER:

Eye and skin irritant.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time.

PRODUCT CODE:

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09

CHEMICAL FATE INFORMATION:

No data at this time.

PERSISTENCE:

Not determined.

APPRAISAL:

Not determined.

MOBILITY:

Not determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE METHOD:

Disposal should be made in accordance with federal, state and local regulations. Incineration recommended in approved incinerator according to federal, state, and

local regulations.

EPA HAZARDOUS WASTE DISPOSAL CODE:

D001, RQ = 100 lb / 45.4 kg.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME:

RESIN SOLUTION

DOT HAZARD CLASS:

DOT PACKING GROUP:

PG III

DOT LABEL (S):

FLAMMABLE LIQUID

UN/NA NUMBER:

UN1866

PLACARDS:

FLAMMABLE LIQUID

ICAO/IATA:

3 , III

IMO IMDG CODE:

3.3 , PAGE 3379

MARINE POLLUTANT:

NONE

NMFC CLASSIFICATION:

CLASS 55

15. REGULATORY INFORMATION

HAZARD RATING SYSTEMS

NFPA RATING:

HEALTH 2 , FLAMMABILITY 2 , REACTIVITY 1

HMIS CLASSIFICATION:

HEALTH 2 , FLAMMABILITY 2 , REACTIVITY 1

VOC EXCLUDING H20

3.8 lb VOC/gal by ASTM 2369-81 (1g, hr @ 110C) **& EXEMPTED VOC (LB/GL):** 2.04 lb VOC/gal by ASTM 6053 (2g, 1hr @ 150C)

PRODUCT CODE:

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COUNTRY REGISTRATION

TSCA INVENTORY STATUS:

The ingredients of this product are either listed on

the TSCA inventory or are not subject to the

notification requirements (exempt).

CANADIAN INVENTORY:

The ingredients of this product are listed on the Domestic Substance List, Non-Domestic Substance List

or are exempt.

EINECS:

This product, and all its components, complies with

EINECS.

REGULATORY INFORMATION: CA/MA/NJ/PA RIGHT-TO-KNOW

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT	CALIFORNIA PROPOSITION 65	MASSACHUSETTS RIGHT-TO-KNOW	NEW JERSEY RIGHT-TO-KNOW	PENNSYLVANIA RIGHT-TO-KNOW
Vinyl Toluene 25013-15-4	30 - 60	NOT LISTED	YES	YES	YES
Silica, Amorphous, Fumed Crystalline-Free 112945-52-5	1 - 5	NOT LISTED	NOT LISTED	YES	NOT LISTED
Dicumyl Peroxide 80-43-3	0.1 - 1	NOT LISTED	NOT LISTED	YES	NOT LISTED

SARA 302 EXTREMELY HAZARDOUS

SUBSTANCES LIST:

No components of this product are listed as extremely

hazardous substances in 40 CFR Part 355 and are

present at levels which could require reporting and

emergency planning.

SARA (311, 312) HAZARD CLASS:

FIRE HAZARD

ACUTE HEALTH HAZARD CHRONIC HEALTH HAZARD

SARA 313 CHEMICALS:

This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372.

NONE - This product does not contain chemicals at levels with require reporting under the statue.

WHMIS (CANADA):

WHMIS HAZARD CLASS:

B3 COMBUSTIBLE LIQUIDS

D2B TOXIC MATERIALS

F DANGEROUSLY REACTIVE MATERIAL

WHMIS TRADE SECRET:

NONE

PRODUCT CODE:

777C 777C

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16. OTHER INFORMATION

COMPANY DISCLAIMER:

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

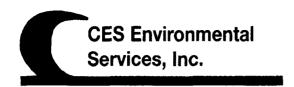
ABBREVIATIONS:

EST = ESTIMATED
NA = NOT APPLICABLE

NEGL. = NEGLIGIBLE UNKN = UNKNOWN

ADDITIONAL INFORMATION:

NONE



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Nelson Gutierrez

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2676

Expiration Date 3/31/2010

Generator: National Oilwell

Address:

11919 FM 529 Road

Houston, TX 77041

Waste Information

Name of Waste: Recyclable oily water and sludge

TCEQ Waste Code # Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily water from pressure washing drilling equipment

Color: varies

Odor: none

pH: 3-11

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 http://www.cesenvironmental.com

Fax: (713) 676-1676

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	National Oilwell				
Address:	11919 FM 529				
City, State, Zip:	Houston, TX 77041				
Contact:	Nelson Gutierrez		Title:	Superviso	
Phone No:	713-849-8049		Fax No:	713-849-8	3090
24/hr Phone:					
U.S. EPA I.D. No:	Na			8. A	
State I.D.	Na		SIC Code:	AR	
CECTONA DIII	T. C 57.0		-	.,	
	<u> Information – 🛛 Sa</u>	me as Above			
Company:				•	
Address:					
City, State, Zip:					
	Attn: Nelson Gutierrez				
Phone No:		Fax No:			
	al Description of the				
	cyclable oily water and of Process Generating	sludge g Waste: Oily water from p	ressure washing	g drilling e	quipment.
Physical State:	☑ Liquid☐ Solid	Sludge □Filter Cake □	Powder Combination		
Color: Varies	Od	or: None			
Specific Gravity (wa	ter=1): <u>.9-1.1</u>	Density: <u>8-9.5</u> lbs/gal			
Does this material co	ontain any total pheno	lic compounds? 🗌 Yes	⊠ No		
Does this material co	ontain any para substi	tuted phenolic compounds	? 🗌 Yes 🛛	No	
Layers:	☐ Single-phase	Multi-phase			
Container Type:	☐ Drum	☐ Tote 🖂	Truck	\Box	Other (explain)
V -				Ш	Other (explain)
Container Size:		***************************************	<u>1-3000 G</u>		
Frequency:	☐ Weekly	☐ Monthly ⊠	Quarterly		Yearly
Number of Units (co	•	Other:		_	•
Texas State Waste C	´ —	velable			
Proper U.S. DOT Sh	ipping Name:	Recyclable Oily Water	Mixture		
Class: Na	UN/NA:	Na	PG: Na		RQ: Na

P.004

11AB-40-4UUU **SECTION 4: Physical and Chemical Data**

COULD WASHINGTON	เต็บเรื่องจัดเก็บ	Units
The waste consists of the following materials	Ranges are acceptable	ог %
water	61-90	%
oils (hydraulic, diesel)	2-4	%
Sludge (mud)	5-35	%
		<u> </u>
		_
		L

SECTION	Z.	On Calma	Dalass	d Dage
SECTION.	Э:	SHIELD	Keinu	a Dau

If the handling of this waste requires the use of special protective equipment, please explain. level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. TCLP analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none

TCLP Metals:

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Volatiles:	TCLP
TCLP Semi-Volatiles:	X-none in process
Reactivity:	
Corrosivity:	
Ignitability:	
attached description is composition of composition tested are representative of Authorized Signature:	ed herein is based on \square generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful in properties exist and that all known or suspected hazards have been disclosed. I certify that the materials of all materials described by this document.
Printed Name/Title: N	EDUN HOITEIGEZ / TIMINIT JOPQCO/30 K.
Printed Name/Title: <u>//</u>	ELSON BUTTERUEL / MAINT. SUPERUISOR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Lobban Blay A	Process Facility Information:
Date: 3-31-08 Approved Rejected	
Approval Number: 2676	

SEC'	TION 10: Waste Receipt Classification Under 40 CFR 437
Is this	s material a wastewater or wastewater sludge? YES NO
If 'Y	es', complete this section.
PLE.	ASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals	Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions ncineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils Su</u>	bcategory: Subpart B
	Used oils Dil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Dil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Diff-specification fuels Underground storage remediation waste Fank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organi</u>	cs Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
	Fank clean-out from organic, non-petroleum sources

(1)	II tile v	waste contains on and grease at or in excess of 100 mg/L, the waste should be classified in the ons subcategory.							
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.							
	Chrom Coppe	um: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L							
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.							
		Metals Subcategory							
	\boxtimes	Oils Subcategory							
		Organics Subcategory							

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.35/gal (\$400/min)
I	
2.	Contamination Limits (maximum limit before surcharges apply):
٠.	
	>40% SOLIDS-CALL DAN
i	
,	
3.	Surcharge Pricing:
ſ	Sales Person
	Suics I croon
Į	
4.	Special Testing Requirements:
	for flash, chlir-D-te et
	1 test to tol pri, and the 1803, prendict, mercus. Test on
	Conclude the challenger of the
	Tor two, chine or
5 .	Treatment and Handling Protocol:
ſ	Treat oily water phase with oily water-suck off liquids from top
	Put sludge in class 1 sludge box
	1 at studge in viass 1 studge ook
ĺ	
[
Į	
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6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C
- 1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Chlor-d-tect
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); Used Oil
8.	Management for Product Recovered/Recycled (if applicable); Used Oil
8.	
8.	
8.	
8.	



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

63008.01

1of 1

Customer: CES Env.

Sample ID: Oil Water/

Environ ID: 63008.01

Project ID: National Oilwell

Sludge

Sampled: 03-13-08 09:00

Project Loc: Hou., TX

Matrix: Waste Water

Received: 03-13-08

Charge/P.O.: 0308-08

Type:

Reported: 03-20-08

RECEIVED BASIS

t	-10		HECEIVED BA	<u> </u>					
ANALYTE /	F	ESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT		METHOD	BY		
BENZENE TCLP							I		
Benzene RCI	<	0.001	mg/l	-	0.001	SW846.8021B	DMB	03-19-08	13:36
Reactive Cyanide	<	50	mg/kg	250	50	SW846.7.3.3	LC	03-18-08	14:15
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	LC	03-18-08	14:50
Corrosivity (pH)	Ē.	7.26	su	=>2; =<12.5	-	SW846.9045C	LC	03-18-08	13:50
Ignitability	>	160	°F	> 140		SW846.1010M	LC	03-19-08	14:05
METALS (RCRA) - TCLP			ł			SW846.1311	MN	03-13-08	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Barium		1.28	mg/l	100	0.02	SW846.6010B	JA	03-20-08	15:00
Cadmium	<	0.02	mg/f	1.00	0.02	SW846.6010B	JA	03-20-08	15:00
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-20-08	15:00
Selenium		0.05	mg/l	1.00	0.05	SW846.6010B	JA	03-20-08	15:00
Silver	<	0.05	mg/l	5.00	0.05	SW846,6010B	JA	03-20-08	15:00
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A	MN	03-17-08	10:00

Definitions

TCLP - Toxcisity Charasteric Leaching Procedure

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D Laboratory Director

10000

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	RIFX	IMETHOD:	EPA SW846/5030/8021E	MATHIX:	LEACHATE
ANALYST:	dmb	UNITS:	mg/l NO.	SAMPLES:	1

SAMPLES:	63008.01				

MATRIX	MATRIX	SPIKE	MS	MS	MSD	RPD	CCV	MB	QC LIMIT	QC LIMITS (%)	
8030151	RESULTS	ADDED	RESULTS	REC	REC		REC		REC-RANGE	APD	
BENZENE	0	100	86	86	84	3	91	0	60 - 120	20	
TOLUENE	0	100	86	86	84	3	92	0	60 - 120	20	
Et-BENZENE	0	100	88	88	85	4	88	0	60 - 120	20	
XYLENES	0	300	274	91	89	2	99	0	60 - 120	20	
MTBE	0	100	101	101	101	0	114	0	60 - 120	20	

KEY:

BTEX - Benzene (BENZ), Toluene (TOL) Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

Lab.Dir./QA-QC Mgr.

03-20-08

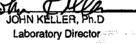
DATE

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS		METHOD:	EPA SW84	16/6010		MATRIX:	LIQUID
ANALYST:	JA	DATE:	03.20.08	UNITS:	PPM (mg/l		NO.SAMPLES:	7
SAMPLES:	63008.01	63012.01	63012.02	63014.01	63014.02	63017.01	63023.01	
1								

MATON COME & MATON COME DUDI CATE ANALYSIS	BATCH ID:	63008.01
MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID:	03000.01

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	AITS.
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	5.01	100	102	2	92	0	75 - 125	20
Barium	0.00	5	4.94	99	100	1	96	0	75 - 125	20
Cadmium	0.00	5	4.90	98	100	2	98	0	75 - 125	20
Chromium	0.00	5	4.89	98	99	1	97	0	75 - 125	20
Lead	0.00	5	4.94	99	102	3	97	0	75 - 125	20
Selenium	0.00	5	5.08	102	106	4	94	0	75 - 125	20
Silver	0.00	5	4.92	98	100	2	97	0	75 - 125	20



ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA	SW846/7471A	MATRIX:	LIQUID
				1712 11 1 112 11	El GC ID

ANALYSTS: MN	DATE:	03.17.08	UNITS:	mg/i	INO.SAMPLES:	11

SAMPLES:	63001.01	63001.02	63001.03	63001.04	63003.01	63008.01	63011.01	63012.01
1	63012.02	63013.01 -	63015.01					
1						· · · · · · · · · · · · · · · · · · ·		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL	CONT.	METH.	CORR. QC LIN	VITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1 60 - 120	20



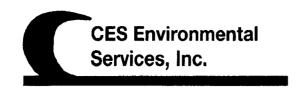
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3-26-08;12:55PM;Environ

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ENVIRON		Company: CEC		W 13.2	P 5277		1	Comp	any:			5. 49.2.		4,4			i i	LAB	LOT#			COC	Present	
Express Laboratories	Page of	Address:	<u> </u>	. 2	L			Addre	ess:	_	7	iukli.							mapt S		3	Sam	oles Sealed	
ENVIRON EXPR	ESS LABORATORIES, INC.	Gity G	الم زياة	State:		Zip:		City:			_	211. TO		lale:		Zì	91	Rge	Yes eved o	No no lce?		San	Yes No.	
401 North 11th. S (281) 471-0951 /	St. / La Porte, Texas 77571-3115 (800) 880-0156	Phone: 7/3-	25U	TX		<u>(0.3</u>		Phone	e:	\rightarrow					- '5	4.	-		Yes)	No np. (°C	»	_	ves No	CHOST 259 151
Fax: (281) 471-58 e-mail: environex	321 / After Hours: (281) 844-2308		عاده			<i>#</i>		Fax: PO#:		7		Ic	Duote#					Hale	Time	OK2		Yes Res	(No)	NA
Project Name:	Sam	pler Remarks:	² Cntr.		G								20016#	<u>.</u>	I	T		$\Box \ell$	Aes)	No	1	Yes	No (NA)
Nation:	Bilwell		Numbe Volume		330°	Z						\pm		\pm			\pm	PH Ves		o 1	NA		& Labels A	
Project No:			³ Prese	rvative	-					OTAL			\dashv	\dashv		+		~	R	lemark	s & Ad	dition	nt Analyses	
Sampler (Print):	୦୫-୦ଚ			AB				- 1		A TCL	-4	, A												
Dav	n Bownen			(C)OMP / (G)RAB	(a)	05.3)			,,	_	RCRA 8 METALS	Ben	- [
Sampler (Sign):	m Bun		ž	MP/	BTEX (8021B)	XT			VOLATILES	SEMI-VOLS	8 ME	2									With the last			
EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	' MATRIX	ပ္သိ	BTEX	TPH (TX1005	교	PAH	VOLA	SEMI	RCR/	Tale	ŀ											
63008.01	1) Oily Water / Sludge	3-13-08	, ww				X				X	X											11.2	
	2)												1			1				7.7 1.7				
	3)		<u> </u>											1		1	1	\top	,			9. 1	11.8	
	4)															1	1	\top	•	e e				
	5)														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				d de	- (1			
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	8)														1						7	i.	111	
	9)												\dashv				7	1			ii ii			
	10)														1	1								
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Relinquished By:		npany:			Date	Time	_	<u> </u>	<u>~</u>	Recei	ived E	Зу:			_		• •		mpany:		78			
	S:Soil W:Water WW:Waste Water	SL:Studie SO:Sotia	SF-Cod	iment I	1100	M.	atrix Wis	Key	OB.)rnanir	. OI	-Oil F	Sina	m Sci	id Di	.0	a Lieuri	4 0.0	tho-					
	² Container Typ	e Key	360	micit I	LEG	CITALE	T	AIDS .							3 Pre	serv	ative	Kev				pi se		
Delivery of samples	P:Plastic G:Glass V:VOA Glass O:constitutes acceptance of Environ's terms		ce Sche	dule.			J		1:10	e(<4°() Z:	HUL 3	:H2S()4 4 :	EON	5:Na	OH 6:	NaOH-	+Zn Ac	etate	/:Na2	5203	8:None	

1 BC 2677 72-4-09 8-4-09 T. 25



Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

CKG Zack Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile#

2677

Expiration Date 3/31/2010

Generator: TBC Brinadd (Blue Ridge)

Address:

5035 McHard Rd

Blue Ridge, TX 77056

Waste Information

Name of Waste: Salt, sodium chloride

TCEQ Waste Code #

Container Type:

Detailed Description of Process Generating Waste:

Off-spec material

Color: crystals

Odor: none

pH:

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

MH

CES Environmental Services, Inc.

DB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General Company:		LIHADO			
Address:	5035 Mc	MARO Rd.			
City, State, Zip:	MOUSTON	TX 77053	<u> </u>		
Contact:	ZAC MCKAU	6HAO	Title:		
Phone No:			Fax No:		
24/hr Phone:	281-541-48	29			
U.S. EPA L.D. No:	TX CES QG			14	
State I.D.	<u> </u>		SIC Code:	JA_	
SECTION 2: Billing Company:	Information - Sau				
Address:			20.		
City, State, Zip:	MNNTGOMER				
Contact:	ZAC MCKANGA				
Phone No:		Fax No:	9311-	1510-	1886
Name of Waste: SA	al Description of the S	402105			
Detailed Description	of Process Generating	Waste: Off Spec	material		
Physical State:	☐ Liquid ☑ Solid	Sludge Filter Cake	Powder Combination		
Color: GRYSTAGS	Soud od	or: NONE			
Specific Gravity (wat	er=1): <u> </u>	Density: <u>NA</u> lb	os/gal		
Does this material co	ntain any total pheno	lic compounds? 🔲 Ye	s \ No		
Does this material co	ntain any para substi 	tuted phenolic compou	nds? 🗌 Yes 📮 I	No	
Layers:	Single-phase	Multi-phase	DO HX		
Container Type:	Drum	Tote	Truck		Other (explain)
Container Size:		7 330ad	••••		
		7.7			
	_			,	
Frequency:	☐ Weekly	Monthly	☐ Quarterly	Ы	Yearly
Number of Units (cor	ntainers): 🔼	Other:			
Texas State Waste Co	ode No: / 🔑	506 314 2			
Proper U.S. DOT Shi		NON HAY MI	ON OUT		
Class:	UN/NA:		PG:	∞	RQ:

Flash Point	pH nh	Reactive Sulfidesmg/l	Reactive Cyani	ides	Solids 100 %	
Oil&Grease	TOC	Zinc	Copper	Nickel		
₩g/l	i√_mg/i	<u> </u>	_^_mg/l	Mm	<u>z</u> /l	
SECTION 4: Ph	ysical and Chemical	Data				
					Tinits	1
T		the following materials		s are accepta		
	DIMM CH			0070		1
	DIVONC (_A)	C01~-012 E	10	<u> </u>		
					~ -	-
						†
		***************************************				,
CECTION 5. Co.	Catro Dalatad Data					
	<u>sety Related Data</u>					
		the use of special protective	e equipment, please ex	plain.		
Level DPF	七					
SECTION 6: At	tached Supporting D	ocuments				
		r analysis attached to this fo	arm as nort of the we	sto opproval	naakaga	
wsp5	s, notes, uata, and/o	r analysis attached to this n	orm as part of the was	ste approvati	раскаде.	
<u> </u>						
SECTION 7: Inc	compatibilities					
Please list all inco	ompatibilities (if any);				
New	,	,				
SECTION 8: Ge	nerator's Knowledg	e Documentation				
Laboratory analy	vsis of the hazardous	waste characteristics, liste	d below. WAS NOT P	ERFORMEI) based upon the	e following
generator knowle			- 			,
	1					
TCLP Metals:	<u> </u>					
TCLP Volatiles: TCLP Semi-Vola	tiles:					
Reactivity:						
Corrosivity:						
Ignitability:						
SECTION 4. C.	manataris Castifics	ion				
	nerator's Certificati	 -		4 1 . ==		.*
The information of	contained herein is ba	sed on generator knowled	dge and/or [] analytic	al data. I here	eby certify that the	te above a
		accurate to the best of my likist and that all known or su				
		described by this document.		Decii disciose	i. I certify war	tite materi
1001001 12 1 1 1 1 1 1 1 1 1 1 1)		- /	1	
Authorized Signa	ature:		T.	ate: JZ	c/ OP	
		- Mich-		· ·	. •	
Printed Name/Ti	tle:	Mikaugh	*****			
CES USE ONLY (DO	NOT WRITE IN THIS	SPACE)				
		AD)				
Compliance Offic	er: Karkhul	Maya				
Date: 3-31	-08	Annequed Bajastad				
Date. J	<u> </u>	pproved Rejected				
	_					
Approval Number	: 7677					

<u>SI</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PĮ	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Org</u>	unics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
	Wastewater from adhesives and/or epoxies formulation

(1)	II GIO	waste contains on and grease at or in excess of too mg/c, the waste should be classified in the ons shocklegory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L I: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

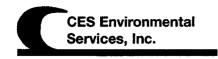
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	base Pricing (including freight):
	\$25/dm
2.	Contamination Limits (maximum limit before surcharges apply):
_,	None
	None
_	
3.	
	None
i	
4.	Special Testing Requirements:
	None
5.	Treatment and Handling Protocol:
	Class 2 Solids for Landfill
l	
6.	Treated Wastewater Discharge Subcategory:
[
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	_ · · · _ · · .



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/٠	Tests for Product Recovered/Recycled (II applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); NA
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5035 MCHARD. Houston, TX MOSO

> 2 tokes 370901

TBC-BRINADD

A DIVISION OF TEXAS UNITED CHEMICAL CO., LLC

4800 San Felipe Houston, TX 77056 www.tbc-brinadd.com

MATERIAL SAFETY DATA SHEET

Product: Ultrasal 3E Ultrasal 5E Revision: 4

Ultrasal 8E Ultrasal 10E Ultrasal

20E Ultrasal 30E

Product Code: none; 6070/6071; Issue Date: 05/11/2006

none; 6073; 6074/6075; 6076

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

(As used on label and list)

ULTRASAL 3E, ULTRASAL 5E, ULTRASAL 8E, ULTRASAL 10E, ULTRASAL 20E, ULTRASAL 30E

DISTRIBUTED BY:

TBC-BRINADD 5035 McHard Street Houston, Texas 77053

EMERGENCY TELEPHONE NUMBER: (281) 438-2565 INFORMATION TELEPHONE NUMBER: (713) 877-2789

SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	EC No.	CAS-No.	Content, %	Classificati on
Salt, Sodium Chloride*	231-698-3	7647-14-5	99. 8%	-

[&]quot;Sodium Hexacyanoferrate in trace amounts is used as a anti-caking agent in the sized salt, sodium chloride.

The Sodium Chloride is not intended for human consumption. It is to be used solely as a Drill-In fluid additive.

SECTION III - HAZARDS IDENTIFICATION

Physical State and Appearance Solid. (Granular solid. Crystals solid.)

Emergency Overview: Caution!

May cause eye and skin irritation.

May cause damage to the following organs skin, eyes, stomach.

Routes of Entry

Inhalation. Ingestion

Potential Acute Health Effects Acute effects may include nausea, dryness of nasal mucous membranes, dryness of skin, and redness of eyes

Eves:

May be hazardous in case of eye contact (irritant).

Skin:

May be hazardous in case of skin contact (irritant). Skin Inflammation is characterized by

itching, scaling, reddening, or, occasionally, blistering. Non-hazardous in case of inhalation.

Inhalation: Indestion:

Non-hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects:

This material is not known to cause cancer in animals or humans. Additional Information See Toxicological Information (Section 11)

Medical Conditions Aggravated by Overexposure:

Repeated or prolonged exposure is not known to

aggravate medical condition.

SECTION IV - FIRST - AID MEASURES

Not intended for human or animal consumption, may cause nausea. Product contains Yellow Prussiate of Soda (Sodium Ferropyanide) at levels exceeding food additive tolerance. Drink large amounts of water. Consult Physiclan.

Inhalation:

May cause dryness of mucous membranes and nose and throat irritation. Remove to

fresh air.

Skin Contact: May cause dryness to skin. Wash with water.

Eve Contact: May cause irritation and redness. Flush with water for at least 16 minutes. If irritation persists, get medical attention.

SECTION V - FIRE FIGHTING MEASURES

Flash Point (Method Used):

Not applicable

Flammability of the Product:

Non-flammable

Flammable Limits:

LEL:

N/A

UEL: N/A

Auto-Ignition Temperature: NA (Non-combustible)

Combustion Fire Hazards in Presence of Various Substances Not applicable

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact No.

Extinguishing Media:

Non-combustible

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards: None

SECTION VI - ACCIDENTAL RELEASE MEASURES

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal

container.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container Finish Cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Splll Kit Information

No specific spill kit required for this product.

SECTION VII - HANDLING AND STORAGE

<u>Precautions to Be Taken in Handling and Storing</u>: Avoid contact with eyes, skin and clothing. Do not in gest. Keep container tightly closed. Keep container in a cool, well-ventilated area

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME	OSHA PEL-TWA	ACGIH TLV-TWA	OTHER RECOMMENDED LIMITS	% (optional)
Salt, Sodium Chloride	Not established	Not established	OSHA: 15 mg/m ³ (as PNOR total dust); 5 mg/m ³ (as PNOR respirable fraction). ACGIH: 10 mg/m ³ (as PNOC inhalable dust); 3 mg/m ³ (as PNOC respirable fraction).	99.8

Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: wet processing methods to reduce dust generation.

<u>Respiratory Protection:</u> When respirators are required, select NIOSHMSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and furnes.

Eve/Face Protection: Eye and face protection requirements will vary dependent upon work environment.

conditions and material handling practices. Appropriate ANSI 287 approved equipment should be selected for the particular use intended for this material

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection: Skin contact should be minimized through use of gloves and sultable longsleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation

Work Practice Controls: Personal hyglene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material

(1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material i

(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet

(3) Wash exposed skin promptly to remove accidental splashes or contact with this material

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

1413

Specific Gravity (H2O = 1):

2.165

Vapor Pressure (mm Hq.): 1 MM @ 855

Melting Paint

Vapor Density (AIR = 1):

N/A

Evaporation Rate (Butv) Acetate = 1):

Appearance and Odor: White, Crystalline, Odorless solid

Solubility in Water: Appreciable (26.43% by

weight at 20C)

Percent Volatile By Volume 0

SECTION X - STABILITY AND REACTIVITY

Stability and Reactivity: This product is stable

Conditions of Instability. Not available

Incompatibility with Various Substances (Materials to Avoid):

Bromine Triflouride, Lithium

Rem/Incompatibility:Not available

Hazardous Decomposition Products: When heated to decomposition (above 1413 C) may emit toxic fumes of Na O and Cl.

Hazardous Polymerization: Will Not Occur

SECTION XI -TOXICOLOGICAL INFORMATION

RIECS Number. Sodium Chloride VZ4725000

Toxicity:

Acute oral toxicity (LD50): 3000mg/kg [Rat].

Acute toxicity of the vapor(LC60):> 42000 mg/m³ 3 hour(s) [Rat].

Chronic Effects on Humans:

Contains material which may cause damage to the following organs: skin,

eves, stomach

Acute Effects on Humans May be hazardous in case of eye contact (Irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or occasionally. blistering. Non-hazardous in case of inhalation. Non-hazardous in case of ingestion.

(Toxicologically) Irritancy.

Draize Test (Rabbit):

Ever 100mg/24h. Reaction: Moderate.

Skin: 500ma/24h mild

Sensitization: Not available.

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Taxisity to Reproductive System: Tests on laboratory animals for reproductive effects are cited in

Registry of Toxic Effects on Chemical Substances (RTECS).

Mutagenic Effects: Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS)

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity:

Not available

BODS and COD:

Not available

Toxicity of the products of Biodegradation: The product itself and its products of degradation are not

taxic.

SECTION XIII - DISPOSAL CONSIDERATIONS

EPA Waste Number:

Not available

Treatment: Material does not have and EPA Waste Number and Is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

SECTION XIV - TRANSPORTATION INFORMATION

All Components on TSCA Inventory.

Yes

DOT Shipping Name: **DOT Hazard Class:**

Not Applicable Not Regulated

DOT Labels:

None

UN Number. **DOT Marine Pollutant:** Not Applicable

Ozone Depleting Substance:

Not Listed Not Listed

Schedule B Number:

2528.90.0000

SECTION XV - REGULATORY INFORMATION

International Regulations:

Australia (NICNAS): SODIUM CHLORIDE

Japan (MITI): SODIUM CHLORIDE

SODIUM CHLORIDE

SODIUM CHLORIDE 231-598-3

Philippines (RA6969):

KOREA (TCCL):

SODIUM CHLORIDE SODIUM CHLORIDE

China:

EINECS:

DSCL (EEC):

R36/38-Irritating to eyes and skin.

Risk Phrases

NC

Not Classified

Safety Phrases

NC

Not Classified

This chemical substance is not classified in the Annex I of Directive 67/646/EEC

WHMIS:

NC

Not Controlled

State Regulationa

No products were found.

U.S. Federal Regulations: TSCA 8(b) inventory: SODIUM CHLORIDE

SARA 302/304/311/312 extremely hazardous substances: No products were

found.

SARA 302/304 emergency planning and notification: No products were found.

SARS 302/304/311/312 hazardous chemicals; SODIUM CHLORIDE SARA 311/312/ MSDS distribution-Chemical inventory-hazard identification:

SODIUM CHLORIDE:

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, SARA 313 toxic chemical notification and release reporting. No products were

found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were

found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SECTION XVI - OTHER INFORMATION

HMIS Code:

Health:

Flammability:

0

Reactivity:

D

LEGEND INFORMATION

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

WHMIS - Workplace Hazardous Material Information System

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

TWA - Time Weighted Average

6

STEL - Short Term Exposure Limit NTP - National Toxicology Program IARC - International Agency for Research on Cancer N/A - Not Applicable N/D - Not Determined PNOC - Particulate Not Otherwise Classified PNOR - Particulate Not Otherwise Regulated - Registered

REVISIONS

May 11, 2006 Rev 4

1) Supercedes October 10, 2003 Rev 3

2.) Updated all information

October 10, 2003 Rev 3

1.) Supercedes June 16, 2000 Rev 2

Updated all Information.
 Added WHMIS classification.

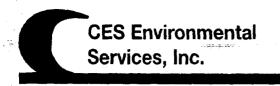
June 16, 2000 Rev 2

1.) Supercedes January 12, 1999 Rev 1

2.) Updated all information

DISCLAIMER: The information herein is given in good faith but no warranty, expressed or implied, is made.

Zach 2661 2661



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2661

Expiration Date

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Miscellaneous debris from manufacture of pharmaceutical prod

TCEQ Waste Code #: 00324091

Container Type:

Detailed Description of Process Generating Waste:

Wast generated from handling and manufacturing of Dorzolamide, RDPP4 oxo-sulphone

Color: various

Odor: moderate

pH: 7

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	ZaCh Systems, Inc.				
Address:	914 16 th Street				
City, State, Zip:	LaPorte, TX. 77571				
Contact:	Ronald Smith		Title:	HS&E M	anager
Phone No:	- 281-471-3147- 28	31-842-0201	Fax No:		2985 281-867-1734
24/hr Phone:	281-842-02	145			
U.S. EPA I.D. No:	TXR000079062			ſΛ.	_
State I.D.	88429		SIC Code:	NA	
SECTION 2: Billing Company: Address:	Information – 🛛 Sa	ame as Above			
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
	cellaneous debris fron	n manufacturer of pharn			turing of Dorzolamide, RDPP 4 oxo
Physical State:	Liquid	☐ Sludge	Powder		
r nysicai State:					
	Solid	Filter Cake		n	
Color: various	O	dor: moderate			
Specific Gravity (was	ter=1): <u>1.15</u> \sim \sim	Density: Na 11	os/gal		
Does this material co	ntain any total pheno	olic compounds? 🗌 Yo	es 🛭 No		
Does this material co	ntain any para subst	ituted phenolic compou	ınds? 🗌 Yes 🛛	☑ No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type:	☑ Drum	☐ Tote	Truck		Other (explain)
Container Size:	<u>55 gal</u>				
Frequency:	☐ Weekly	☐ Monthly	Quarterly	П	Yearly
- ·		•	~ Anatterly	ш	Loany
Number of Units (cor	• —	Other:			
Texas State Waste C	ode No: 0033	24091			
Proper U.S. DOT Sh	ipping Name:	Non-RCRA/Non D	OT regulated m	aterial	
Class: $\sqrt{\Lambda}$	UN/NA	: NA	PG: 1	A	Ky. W/

Flash Point	pН	Reactive Sulfides	Reactive Cyanid	les Solids
<u>N/A</u>	7	<u><50 mg/l</u>	<u> 250 mg/l</u>	100%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u> 21500</u> mg/l	> 157 mg/l	<u>///</u> mg/l	<u>///C_mg/l</u>	<u>//C</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Miscellaneous debris	50-80	%
Powder (Dorzoamide, RDPP, 4 oxo sulphone)	0-20	%

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis attached

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of generator knowledge:	the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:	
Reactivity:	
Corrosivity: Ignitability:	

SECTION 9: Generator's Certification

Authorized Signature:

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title: KONALD Smith - EHS MANAGER	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Lobbert Clay	\$75 dm, FSC, trons Class 1 Solids
Date: 3-19-08 Approved Rejected	
Approval Number: 266	

<u>S</u> E	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	uls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L or: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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Express Laboratories		P	Address: 4904	Che	á Coc	c Y	700	<u> </u>	Addr	ess:										Shippa		aled? No	s		Sealed?	
ENVIRON EXPRE	ESS LABORATORIES, INC. st. / La Porte, Texas 77571-31		city Houseon	<u> </u>	State:	<u> </u>	Zip:	<u>-</u>	City:		١.				State:			Zip:		Receiv	ed on	lce?	s	amples	Intact?	
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ax: (281) 471-58	321 / After Hours: (281) 844-2	308	Phone: 7/367	6	146	٥			Phon Fax:	e:										Cooler	عري	. (°C)		``	live Show	wn? NA
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Sampler (Sign):	2-5			×	COMP/GRAB	BTEX (8021)	TPH (TX1005)			VOLATILES	SEMILVOLS	RCRA METALS	5	ک	Stri	1	70×1	元	7	(
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Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62991.01

1 of 1

Customer: CES Env. Project ID: Zach Systems Sample ID: 0208-69

Environ ID: 62991.01 Sampled: 02-29-08 13:15

Project Loc: La Porte, TX

Matrix: Rags Type:

Received: 02-29-08 Reported: 03-05-08

Charge/P.O.:

			RECEIVED B	ASIS						
ANALYTE /	F	RESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME	
PARAMETER				LIMIT	}	METHOD	BY		1 1141	
RCI				T			1	 -	+	
Reactive Cyanide	/ <	50	mg/kg	250	50	SW846.7.3.3	CL.	03-04-08	14:30	
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	CL	03-04-08	15:00	
Corrosivity (pH)		7.46	su	=>2; =<12.5]	SW846.9045C	JE	03-05-08	08:45	
Ignitability	>	140	oF	> 140]	EPA SW846,1010	LC	03-03-08	8:50	
METALS (RCRA) - TCLP			Í			SW846.1311	MN	02-29-08	8,50	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-04-08	14:05	
Barium	1	0.20	mg/i	100	0.02	SW846,6010B	JA	03-04-08	14:05	
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JA	03-04-08		
Chromium		0.12	mg/l	5.00	0.02	SW846.6010B	JA	03-04-08	14:05	
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA JA	1	14:05	
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA	03-04-08	14:05	
Silver	~	0.05	rng/l	5.00	0.05	SW846.6010B	JA JA	03-04-08	14:05	
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A		03-04-08	14:05	
VOC - TCLP (Dilution Factor			19/	0.200	0.002		MN	03-01-08	10:30	
Benzene	<	0.08	rng/i	0.5	0.08	SW846.1311 SW846.8260B	MN	02-29-08		
2-Bulanone (MEK)	~	0.20	rng/l	200.0	0.20	SW846.8260B	JAC	03-03-08	14:38	
Carbon tetrachioride	<	0.08	mg/i	0.5	0.20	SW846.8260B	JAC	03-03-08	14:38	
Chlorobenzene	~	0.08	rng/i	100	0.08	SW846.8260B	JAC JAC	03-03-08	14:38	
Chloroform (Trichloromethan	l .	0.08	mg/i	6.0	0.08	SW846.8260B	JAC	03-03-08	14:38 14:38	
1,2-Dichloroethane (EDC)	<	0.08	mg/i	0.5	0.08	SW846.8260B	JAC	03-03-08		
1,1-Dichloroethene	~	0.08	mg/l	0.7	0.08	SW846.8260B	JAC	03-03-08	14:38	
Tetrachloroethene		0.08	mg/!	0.7	0.08	SW846.8260B	JAC	03-03-08	14:38 14:38	
Trichloroethene	~	0.08	mg/l	0.5	80.0	SW846.8260B	JAC	03-03-08		
Vinyl chloride	~	0.08	ma/l	0.2	0.08	SW846.8260B	JAC	03-03-08	14:38	
SVOC - TCLP (Conc. Factor:		0.00	11197	J.E	0.00	SW846.1311	MN	02-29-08	14:38	
1,4-Dichtorobenzene	<	0.10	rng/l	7.5	0.10	SW846.8270C	JAC	1 1	0.07	
2.4-Dinitrotoluene	~	0.10	mg/l	0.13	0.10	SW846.8270C	JAC	03-05-08	2:27 2:27	
Hexachiorobenzene	` <	0.10	mg/l	0.13	0.10	SW846.8270C	JAC	03-05-08		
Hexachlorobutadiene	~	0.10	mg/l	0.13	0.10	SW846.8270C	JAC,	03-05-08	2:27 2:27	
Hexachioroethane		0.10	mg/l	3.0	0.10	SW846.8270C	JAC	03-05-08		
2-Methylphenol (o-Cresol)	~	0.10	- ,	(200)	0.10	SW846.8270C			2:27	
3&4-Methylphenol (m&p-Cre		0.10	mg/l mg/l	(o+m+p)	0.10	SW846.8270C	JAC JAC	03-05-08 03-05-08	2:27	
Nitrobenzene	~	0.10	mg/l	2.0	0.10	SW846.8270C	JAC	03-05-08	2:27	
Pentachlorophenol	~	0.10	mg/l	100	0.10	SW846.8270C	JAC	03-05-08	2:27	
Pyridine	<	0.40	mg/l	5.0	0.40	SW846.8270C	JAC	03-05-08	2:27 2:27	
2,4,5-Trichlorophenol		0.10	mo/I	400	0.10	SW846.8270C	JAC	03-05-08		
2,4,6-Trichlorophenol	<	0.10	mg/I	2.0	0.10	SW846.8270C	JAC	03-05-08	2:27 2:27	
z,4,6-Themorophenoi			TROL TCLP				JAC	03-03-08	2.21	
SURROGATE			ESULTS (mg/l)		MATERE	% RECOVERY		RANGE	- 0,	
1,2-Dichloroethane-d4 (SS)			0.052			104		76-11		
			0.032	ì		86		80-12		
Toluene-d8 (SS)			0.050	i		100				
4-Bromofluorobenzene (SS)	- 011	M ITY CON	TROL TCLP S	7/00 CHBB	OCATE DO			80-12	0	
0115550175	uu.			SVUC SURRI	JUNIE HE			DANIOS		
SURROGATE			ESULTS (mg/l)			% RECOVERY		RANGE		
Nitrobenzene-d5			0.038	1		76		35-11		
2-Fluorobiphenyl			0.034	1		68		43-116		
Terphenyl-d14			0.036			72		33-14		
Phenol-d5			0.072	.		72		21-10	- 1	
2-Fluorophenol			0.066	1		66		10-10	- 1	
2,4,6-Tribromophenol			0.070	l		70		10-12	3	

TCLP - Toxcisity Charasteric Leaching Procedure

REG - Regulatory Limit (Liser Should Conlirm Limits)

MQL - Method Quantitation Limit

PPM - Parts Per Million

mg/i - PPM by Volume, mg/kg - PPM by Weight

su - Standard Units

John Keller

John Keller, Ph.D Laboratory Director

7aCh		ERIAL SAFETY DA		
ZạCh	Substance: DORZOLAMIDE	Compilation date: Updating date:	08/06/2006 17/05/2007	
Chemical plant: Via Dovaro	MSDS n° 459	Application:	☐ Active pharmaceutical ingredient	
Almisano di Lonigo (VI) - ITALY	Ed. n° 02	☐ Raw material	☐ Solvent	
Phone +39/0444/433111 Fax +39/0444/831192	Page 4	☐ Intermediate	☐ Catalyst	
	1 age 4	☑ Finished product	☐ Reagent	

	DITTOLO	I AND CHEMICAL PROPERTIES	
9.	PHYSICA	AL AND CHEMICAL PROPERTIES	
	9.1. Aspec	t	
	9.1.1.	Physical state : Crystalline powder	
	9.1.2.	Colour : White to off white	
	9.1.3.	Odour :	
	9.2 Impor	tant data for safety:	
	y.z. impor	tant data ivi saicty.	
	9.2.1.	Water solubility	: Soluble
	9.2.2.	Solubility in main organic solvents	: Slightly soluble in methanol and ethanol
	9.2.3.	Density	:
	9.2.4.	Melting point	: 283° - 285°C; also reported as 264°C
	9.2.5.	Boiling point	;
	9.2.6.	Flash point	:
	9.2.7.	Lower and higher flash limit in air (% vol.)	: *
		Autoignition temperature	:
		Decomposition temperature	:
		Vapour pressure	:
		pH valor	:
		Vapor density	•
		Octanol/water partition rate (log P)	:
		Limiting oxygen concentration (LOC %v/v)	:
		MEC (minimum explosive concentration)	in the second se
		MIE (minimum ignition energy)	rate):
		MIT (minimum ignition temperature-dust cloud)	
		LIT (minimum ignition temperature – powder in str	rate):
		Dust explosion constant (Kst)	· · · · · · · · · · · · · · · · · · ·
		Powder class (ST)	
		Estimated on set temperature of exothermic behavior	our:
	9.2.22.	Further information	• TEMEN AND AND THE TOTAL CONTROL OF THE TOTAL CON
			e mara i jakas i jakas i

7.0Ch		ERIAL SAFETY DA	
ZąCh.	Substance: DORZOLAMIDE	Compilation date: Updating date:	08/06/2006 17/05/2007
Chemical plant: Via Dovaro Almisano di Lonigo (VI) - ITALY	MSDS n° 459 Ed. n° 02	Application: Raw material	☐ Active pharmaceutical ingredient☐ Solvent
Phone +39/0444/433111 Fax +39/0444/831192	Page 5	☐ Intermediate ☐ Finished product	☐ Catalyst☐ Reagent
10. STABILITY AND REACT	IVITY		
10.1. Conditions to be avoided	:		
10.2. Materials to be avoided	:		
10.3. Dangerous decomposition pr	roducts: When heated to decomp HCl. Emits toxic fumes		ic fumes of NO _x , SO _x , and
10.4. Other information	: Stable		
11.1.2. Inhalation: Yes 11.1.3. Contact: Yes 11.2. General information: Possi 11.3. Acute toxicity:	ble hypersensitization LD ₅₀ (oral rat) [mg/kg]	: 1927	
11.5. Acute toxicity.	LD ₅₀ (olar fat) [mg/kg] LD ₅₀ (skin) [mg/kg] LC ₅₀ (inhalation) [mg/l/4h] :	:	
11.4. Other toxicity data:	LD ₅₀ (oral mouse) [mg/kg]	: 1320	
 Mutagenicity : the in vivo V-79 assay, and Ames test w Teratogenicity : Adeguate Dorzolamid 	ogen for IARC, OSHA, NPT (mouse) cytogenetic assay, in vitro ere negative for mutagenic potential and well - controlled studies in huma le showed metabolic acidosis in the s were not seen in rabbits and rats all	[USP DI 2004] ins have not been done. R dams and birth defects an	abbits given high doses of
11.6.Corrosive/Irritant action: 11.6.1. Skin 11.6.2. Eyes	- 11147		
orally a Advers irritatio reactio cause e	: n.a. aogenicity data: in a 2 – years study at 20 mg/kg/day produced urinary bla se Effects: Adverse effects followin on, bitter taste, unusual tiredness or v n to material if inhaled, ingested or i lectrolyte imbalance, acidosis, and p in, gastrointestinal and/or respiratory	dder papillomas in the m g administration to the ey veakness, headache, and i n contact with skin. Over ossible central nervous sy	ale rats [USP DI 2004] ye may include eye nausea. Possible allergic dose Effects: Overdose may yetem effects. Acute: Possible
Medic 2004 kidney	al Conditions Aggravated by Expo stones. Cross Sensitivity: Persons a mides, including furosemide thiazid	sure: Hypersensitivity to sensitive to other carboni	material and history of anhydrase inhibitors or other
to this	material also.		

1.641

7aCh	(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)									
* ZULI	Substance: DORZOLAMIDE	opaums auto.	08/06/2006 17/05/2007							
Chemical plant: Via Dovaro Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111	MSDS n° 459 Ed. n° 02	Raw material	☐ Active pharmaceutical ingredient ☐ Solvent							
Fax +39/0444/831192	Page 6	☐ Intermediate ☐ Finished product	☐ Catalyst ☐ Reagent							
12. ECOLOGIC INFORMATION	ONI									
12.1.Ecotoxicity	· :									
12.1.1. Behavior inside puri	ification system (bacterial toxicity	Reproductive/respiratory	inhibition):							
12.2. Mobility	:									
12.3.Persistence/degradability	:									
12.4.Bioaccumulation potential	:									
12.5.Other negative effects on env	vironment :									
12.6.Other ecological indications	•									
12 DICOMENT CONCURRENCE										
13. DISPOSAL CONSIDERAT										
Dispose of waste in accordance w		ws.								
Dispose of waste in accordance w	ith all applicable local national la	ws.								
Dispose of waste in accordance w	ith all applicable local national la									
Dispose of waste in accordance w	ith all applicable local national la									
Dispose of waste in accordance w 4. TRANSPORT INFORMAT Not classified as dangerous acc	ith all applicable local national la									
Dispose of waste in accordance w 14. TRANSPORT INFORMAT Not classified as dangerous accordance was descripted as dangerous accordance was descripted as dangerous accordance was descripted as dangerous accordance was descripted as dangerous accordance was described as dangerous accordance was des	ith all applicable local national la TON cording to international tr									
Dispose of waste in accordance w 14. TRANSPORT INFORMAT Not classified as dangerous accordance were shipping name/description: 14.1.Road and railway transport (Inc. Class: UN n.: UN n.: Class: UN n.: UN	TION cording to international tr									
Dispose of waste in accordance w 14. TRANSPORT INFORMAT Not classified as dangerous accordance w Proper shipping name/description: 14.1.Road and railway transport (I Class: UN n.: Class:	TON cording to international tr RID/ADR): assification code: Label:		M.POU.:							
Dispose of waste in accordance w 14. TRANSPORT INFORMAT Not classified as dangerous accordance was descripted as dangerous accordance	TION Cording to international tr RID/ADR): assification code: Label: Code): UN.n.: EmS:	ansport regulations	M.POU.:							

ZąCh	(EEC) - MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)								
	Substance: DORZOLAMIDE	Compilation date:	e: 08/06/2006 17/05/2007						
Chemical plant: Via Dovaro	HYDROCHLORIDE MSDS n° 459	Application:	☐ Active pharmaceutical ingredient						
Almisano di Lonigo (VI) - ITALY	Ed. n° 02	☐ Raw material	☐ Solvent						
Phone +39/0444/433111 Fax +39/0444/831192	Dogo 7	☐ Intermediate	☐ Catalyst						

☑ Finished product ☐ Reagent

					· · · · · · · · · · · · · · · · · · ·
15	. REGULATORY INFORMATION				
	15.1.Labeling in accordance with ECC Directive	:	1) legal	2) temporary	3) not required
	15.2Hazard symbol	:	Xn HARMFULL		
	15.3. R phrases	: 22	Harmful if swallowed		
	15.4. S phrases		immediately (show the	f you feel unwell, seek medicate label where possible). cal advice immediately and sl	
		.:			i K
	15.5.Law references:	# # #		garan was Sa	
	15.5.1. Medical checks of law: Periodic an regulations.	d pre	event medical examination	ons according to physician and	d Italian
	15.5.2. DPR 175/88 and following updating	gs.≟	er en en en en en en en en en en en en en		
	15.5.3. Compulsory insurance (table DPR 3	36/9	4 – Italian regulation-):		
					11 100 53 1 1 1



Chemical plant:
Via Dovaro
Almisano di Lonigo (VI) - ITALY
Phone +39/0444/433111
Fax +39/0444/831192

(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)

Substance:

DORZOLAMIDE HYDROCHLORIDE

MSDS n° 459 Ed. n° 02

Page 8

	Compilation date:	08/06/2006
	Updating date:	17/05/2007
Ap	pplication:	☐ Active pharmaceutical ingredient
	Raw material	☐ Solvent
	Intermediate	☐ Catalyst
Ø	Finished product	☐ Reagent

16. OTHER INFORMATION

16.1. Notes:

n.a. = non available

BILIOGRAPHY: Material Safety data Sheet USP rev. December 3, 2004

16.2. Other information

16.3.Compilator

16.4.Compilation date

: 08/06/2006

16.5.Last updating date

: 17/05/2007

16.6. Validity date

: 17/05/2009

16.7. Printing date

: 17/05/2007

16.8. Pages number

: 8

16.9. Emergency phone number: +39/335/7803994; +39/335/1221704

Information supplied in this "Material Safety Data Sheet" is based on the best available information and our experience, and it is not exhaustive. It is applied on the product exactly as it is, in case of mixture or compound make sure that no new danger can rise.

In any case people who handle the product must respect the current law and regulation related to the product, hygiene and security on work place.

7 ₀ Ch	(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)				
	Substance: DORZOLAMIDE	Compilation date Updating date:	08/06/2006 17/05/2007		
Chemical plant: Via Dovaro Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111 Fax +39/0444/831192	MSDS n° 459 Ed. n° 02	Application:	☐ Active pharmaceutical ingredient		
	Page 9	☐ Raw material ☐ Intermediate ☑ Finished produc	☐ Solvent ☐ Catalyst ☐ Reagent		
			$_0 - H_{16} - N_2 - O_4 - S_3$. Cl – H		
Use: ANTIGLAUCOMA TOPICAL		TOR	₀ - H ₁₆ - N ₂ - O ₄ - S ₃ . Cl - H		
Use: ANTIGLAUCOMA TOPICAL (Approved DS			$_{0} - H_{16} - N_{2} - O_{4} - S_{3}$. Cl – H		
Use: ANTIGLAUCOMA TOPICAL of Approved DS Approved Dir. R & D		TOR Date:	₀ - H ₁₆ - N ₂ - O ₄ - S ₃ . Cl - H		
Common name: DORZOLAMI Use: ANTIGLAUCOMA TOPICAL of the common name o	CARBONIC ANHYDRASE INHIBI	TOR Date: Date:	$_{0}-H_{16}-N_{2}-O_{4}-S_{3}$. Cl-H		
Use: ANTIGLAUCOMA TOPICAL of Approved DS Approved Dir. R & D	CARBONIC ANHYDRASE INHIBI	TOR Date: Date:	$_{0}-H_{16}-N_{2}-O_{4}-S_{3}$. Cl-H		
Use: ANTIGLAUCOMA TOPICAL of Approved DS Approved Dir. R & D	CARBONIC ANHYDRASE INHIBI	TOR Date: Date:	0 - H ₁₆ - N ₂ - O ₄ - S ₃ . Cl - H		



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: _____Crude R-Diphenyl Prolinol (R-DPP Step 2 of 3)

PRODUCT ID: _____01019

SYNONYMS: ______C-R-DPP; (R)-(+)-alpha,alpha-Diphenyl-2-pyrrolidinemethanol;

Diphenylprolinol; (R)-2-(diphenylhydroxymethyl)pyrrolidine; C₁₇H₁₉NO

ISSUE DATE: 07/25/2003

EDITION NO.:____1

PPG Industries, Inc.
One PPG Place, Pittsburgh, PA 15272, USA
24-hour Emergency Telephone Number: 1-304-843-1300
For Product Information (8am-5pm Eastern time):

1-800-323-2487 (Fine/Optical)

PREPARER: Product Safety, Chemicals

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent	
R-Diphenyl Prolinol 22348-32-9	93	
Diphenyl Proline Carbamate NONE	3	.
Potassium Hydroxide	1	
Potassium Carbonate 584-08-7	1	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

or englished.

WARNING! May be corrosive to both eyes and skin. This product contains a material which causes irreversible eye damage. May be harmful if inhaled. Harmful or fatal if swallowed.

Precautions: Do not get in eyes, on skin, or on clothing. Do not inhale. Use only with adequate ventilation. Ventilation must be sufficient to limit employee exposure to this product below permissible exposure limits. Do not swallow. Swallowing may cause injury or death. The fine dust contained in this product is capable of creating dust explosions. Wash thoroughly every day after work. Remove

Page 1 of 5

PPG: 01019 Crude R-Diphenyl Prolinol (R-DPP Step 2 of 3) 07/25/2003

and wash contaminated clothing before reuse. Do not eat, drink or smoke in work area.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE/SKIN CONTACT: EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable

EXTINGUISHING MEDIA: Large quantities of water, carbon dioxide, dry chemical powder or appropriate foam.

SPECIAL FIREFIGHTING PROCEDURES: Fire-fighters must wear NIOSH approved pressure demand, self-contained breathing apparatus and full protective clothing when fighting chemical fires. Dust/air mixtures may ignite or explode. Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid generating dust. Dust may cause an explosion hazard. Provide maximum ventilation. Wear proper protective equipment. Carefully shovel spilled material and place into closed containers. Recover spilled material and reuse or dispose of according to regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Store only in closed, properly labeled containers. Keep container closed when not in use. Do not use in poorly ventilated or confined spaces without proper respiratory protection. The fine dust contained in this product is capable of creating dust explosions. When handling this product in large quantities, the guidelines established in NFPA 654, Prevention of Dust Explosions, should be followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Page 2 of 5

PPG: 01019 Crude R-Diphenyl Prolinol (R-DPP Step 2 of 3) 07/25/2003

Contact with acids. Strong oxidizers. High temperature. Contact with metals.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Metal oxides.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY STATUS:

This product is NOT listed as a carcinogen or

suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

The toxicological properties and related hazards of this product have not yet been fully determined. It is recommended that anyone handling or using this product do so with extreme care.

ACUTE:

Eye/Skin: This product may cause severe burns. Avoid contact with eyes and skin. This product contains a material which may cause irreversible eye damage.

Inhalation: Breathing dust can irritate the upper respiratory tract including the eyes, nose, and throat. May be harmful if inhaled.

Ingestion: Harmful if swallowed. Accidental swallowing of this material could cause burns of the mouth and GI tract, illness or even death.

CHRONIC: The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

A STATE OF THE STA	14. 7	TRANSPORT	INFORMAT	ION	Later Liefer Committee Committee
Proper Shipping Name:		Corrosive sol	ids, n.o.s.	ar ranky or gra	***************************************
NOS Technical Name:	t lacity on September 1	Potassium Hy	ydroxide		and the second second second
Hazard Class:		8 (Corrosive)	Annual Control of the	***	
A CONTRACTOR OF THE PROPERTY O		r gaar kan maan ar	Taken Statement	47 1970 to 100 min and	223 922511621

Page 4 of 5

17000

PPG: 01019 Crude R-Diphenyl Prolinol (R-DPP Step 2 of 3) 07/25/2003 **UN Number:** UN1759 Packing Group: USA-RQ. Hazardous Substance and Quantity: Marine Pollutant: None 15. REGULATORY INFORMATION **USA TSCA:** A component in this product is not listed on the TSCA inventory. This product can only be used in R&D (by a technically qualified individual) or FDA regulated applications. EUROPE EINECS: A component in this product is not listed on EINECS. This product can only be used in R&D applications. CANADA DOMESTIC SUBSTANCES LIST (DSL): A component in this product is not listed on the Canadian DSL. This product can only be used in R&D applications. AUSTRALIA AICS: A component in this product is not listed on AICS. This product can only be used in R&D applications. KOREA ECL: One or more components in this product are not listed on the Korean Existing Chemicals Inventory (KECI). This product can only be used in R&D applications. **JAPAN MITI (ENCS):** One or more components in this product are not listed on the Japanese Existing and New Chemical Subtances (ENCS) chemical inventory. This product can only be used in R&D applications. **PHILIPPINES PICCS:** One or more components in this product are not listed on the Phillipines Inventory of Chemical and Chemical Substances (PICCS). This product can only be used in R&D applications. **SARA TITLE III:** SARA (311, 312) Hazard Class: Acute Health Hazard. SARA (313) Chemicals: Not listed. **SARA Extremely Hazardous Substance:** Not listed. **CERCLA Hazardous Substance:** The following materials are listed as CERCLA Hazardous Substances in Table 302.4 of 40 CFR Part 302: Potassium Hydroxide (1310-58-3) RQ = 1000 lbs./454 kg. CANADA REGULATIONS (WHMIS): Class D1B - Toxic Materials. Class E - Corrosive Material. OTHER INFORMATION 16. NA = Not Available

70Ch		ERIAL SAFETY DA ce with the Directive 91/1			
ZạCh	Substance: DORZOLAMIDE	Compilation date: Updating date:	08/06/2006 17/05/2007	\	
Chemical plant:	HYDROCHLORIDE	Application:	☐ Active pharmaceu ingredient	itical	
Via Dovaro Almisano di Lonigo (VI) - ITALY	MSDS n° 459 Ed. n° 02	Raw material	☐ Solvent		
Phone +39/0444/433111		Intermediate	☐ Catalyst		
Fax +39/0444/831192	Page 1	☐ Finished product	☐ Reagent		
I DOODLICE AND COMPA	AN INCAPPEIO A TION	I F			
1. PRODUCT AND COMPA	NY IDENTIFICATION				
1.1. Substance identification 1.1.1. Chemical name		AMINO)-5,6-DIHYDRO- N-2-SULFONAMIDE-7,7-D		NO	
1.1.2. Common names and		YDROCHLORIDE ; MK - 0	507		
1.1.3. Chemical Abstract N1.1.4. Application		al: carbonic anhydrase inl	hibitor		
1.2. Company identification1.2.1. Company identificat1.2.2. Emergency phone no	Via Dovaro – Almis Phone +39/0444/43	sano di Lonigo (VI) - Italy 3111 – Fax +39/0444/831			
2.1. Number of CAS register 2.2. ECC number 2.3. Number of EINECS register 2.4. Molecular formula 2.5. Structural formula	TION ON INGREDIENTS : 130693-82-2 : : : C10 - H16 - N2 - C	04-S3. CI-H		a.	
2.1. Number of CAS register2.2. ECC number2.3. Number of EINECS register2.4. Molecular formula	: 130693-82-2 : : : C10 - H16 - N2 - C		was the state of		
2.1. Number of CAS register2.2. ECC number2.3. Number of EINECS register2.4. Molecular formula	: 130693-82-2 : : : C10 – H16 – N2 – C				
2.1. Number of CAS register2.2. ECC number2.3. Number of EINECS register2.4. Molecular formula	: 130693-82-2 : : : C10 – H16 – N2 – C				
 2.1. Number of CAS register 2.2. ECC number 2.3. Number of EINECS register 2.4. Molecular formula 2.5. Structural formula 2.6. Molecular weight 	: 130693-82-2 :: : C10 - H16 - N2 - C : : NH SO ₂ N : 360,92				
2.1. Number of CAS register 2.2. ECC number 2.3. Number of EINECS register 2.4. Molecular formula 2.5. Structural formula 2.6. Molecular weight HAZARD IDENTIFICATIO Harmful if swallowed.	: 130693-82-2 :: : C10 - H16 - N2 - C : : NH SO ₂ N : 360,92				
2.1. Number of CAS register 2.2. ECC number 2.3. Number of EINECS register 2.4. Molecular formula 2.5. Structural formula 2.6. Molecular weight HAZARD IDENTIFICATION	: 130693-82-2 : : : : : : : : : : : : : : : : : : :				

ZaCh	(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)			
	Substance: DORZOLAMIDE	Compilation date: Updating date:	08/06/2006 17/05/2007	
Chemical plant: Via Dovaro Almisano di Lonigo (VI) - ITALY	MSDS n° 459 Ed. n° 02	Application:	☐ Active pharmaceutical ingredient ☐ Solvent	
Phone +39/0444/433111 Fax +39/0444/831192	Page 2	☐ Intermediate ☑ Finished product	☐ Catalyst	
4. FIRST AID MEASURES				
4.1. Swallowing :	May cause irritation, flush out			
Inhalation :	May cause irritation, flush with cop	ous quantities of water.		
4.2. Skin contact :	May cause irritation, flush with cop	ous quantities of water		
	May cause irritation, flush with copthrough the eye	ous quantities of water . I	This material is absorbed	
4.4. Other information	: General first aid procedures : remo Persons developing serious hypers Immediate medical attention. If p If breathing is difficult give oxyget Note to physicians : overdose trea Monitor serum electrolyte and block	nsitivity (anaphylactic) re erson is not breathing give . Obtain medical attention tment should be symphton	eactions must receive artificial respiration.	
5. FIRE-FIGHTING MEASU	RES			
5.1. Adeguate extinguishing mea		r spray, dry chemical, car priate for surrounding fir		
5.2. Extinguishing measures to b	e avoided :			
5.3. Dangerous from combustion	products : This	naterials is assumed to be	combustible	
5.4 Special protection equipme	of for fire extinguishing As w	ith all fires evacuate ners	onnel to a safe area	

6. ACCIDENTAL RELEASE MEASURES 6.1. Absorbing and cleaning procedures : Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Place spillage in appropriately labelled container for disposal. Wash spill site. 6.2. People protection : Wear approved respiratory protection, chemically compatible gloves and protective clothing. Avoid breathing dust. 6.3. Other suggestions :

5.5. Other information

Firefighters should use self contained breathing equipment

and protective clothing

7a.Ch	(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)				
ZQLI)	Substance: DORZOLAMIDE	Compilation date: 08/06/2006 Updating date: 17/05/2007			
Chemical plant:	HYDROCHLORIDE	Application:	☐ Active pharmaceutical		
ia Dovaro	MSDS n° 459		ingredient		
Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111 Fax +39/0444/831192	Ed. n° 02	Raw material	☐ Solvent		
	Page 3	☐ Intermediate	☐ Catalyst		
		☐ Finished product	Reagent		
	al. Wash thoroughly after handling.	and stored per label instr	ructions to ensure product		
INDIVIDUAL EXPOSURI	E/PROTECTION CONTROL				
8.1. General information8.2. Hygiene measures	:	precaution for chemical s	substance		
8.2. Hygiene measures	: : Good hygiene measures, normal				
8.2. Hygiene measures8.3. Respiratory protection	: : Good hygiene measures, normal points: : Approved dust mask or approved	respirator with independ			
8.2. Hygiene measures8.3. Respiratory protection8.4. Hand protection	: : Good hygiene measures, normal	respirator with independ			
8.2. Hygiene measures8.3. Respiratory protection8.4. Hand protection8.5. Skin protection	: : Good hygiene measures, normal position: : Approved dust mask or approved: : Protective gloves chemically come: : Suitable protective clothes	respirator with independ			
8.2. Hygiene measures8.3. Respiratory protection8.4. Hand protection	: Good hygiene measures, normal position: Approved dust mask or approved: Protective gloves chemically com-	respirator with independ			
8.2. Hygiene measures8.3. Respiratory protection8.4. Hand protection8.5. Skin protection	: : Good hygiene measures, normal position: : Approved dust mask or approved: : Protective gloves chemically come: : Suitable protective clothes	respirator with independ			
 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIF 	: : Good hygiene measures, normal position: : Approved dust mask or approved : Protective gloves chemically com : Suitable protective clothes : Protective glasses H, USA)	respirator with independ			
 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIR 8.7.2. TLV/CEILING (ACGIR 8.7.2.	: : Good hygiene measures, normal position: : Approved dust mask or approved : Protective gloves chemically com : Suitable protective clothes : Protective glasses H, USA)	respirator with independ			
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 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIR 8.7.2. TLV/CEILING (ACGIR 8.7.2.	: Good hygiene measures, normal positions: Approved dust mask or approved: Protective gloves chemically come: Suitable protective clothes: Protective glasses H, USA) CGIH, USA) :	respirator with independ apatible	lent air supply		
 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIR 8.7.2. TLV/CEILING (ACGIR 8.7.2.	: Good hygiene measures, normal positions: Approved dust mask or approved: Protective gloves chemically come: Suitable protective clothes: Protective glasses H, USA) CGIH, USA) s must use all suitable security measures.	respirator with independ apatible	lent air supply		
 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIR 8.7.2. TLV/CEILING (ACGIR 8.7.2.	: Good hygiene measures, normal positions: Approved dust mask or approved: Protective gloves chemically come: Suitable protective clothes: Protective glasses H, USA) CGIH, USA) s must use all suitable security measures.	respirator with independ apatible res to limit smokes release	lent air supply		
 8.2. Hygiene measures 8.3. Respiratory protection 8.4. Hand protection 8.5. Skin protection 8.6. Eyes protection 8.7. Exposure limits 8.7.1. TLV/TWA (ACGIR 8.7.2. TLV/CEILING (ACGIR 8.7.2.	: Good hygiene measures, normal positions: Approved dust mask or approved: Protective gloves chemically come: Suitable protective clothes: Protective glasses H. USA) EGIH, USA) s must use all suitable security measured dling or in case of emergency intervents.	respirator with independ apatible res to limit smokes release	lent air supply		



Chemical plant: Via Dovaro Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111 Fax +39/0444/831192

(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)					
Substance: 4 – OXO	Compilation date: 28/05/2007 Updating date:				
SULPHONE	Application:	☐ Active pharmaceutical ingredient			
(wet)	☐ Raw material	☐ Solvent			
MSDS n° 475 Ed. n° 01	☑ Intermediate	☐ Catalyst			
Page 1	☐Finished product	☐ Reagent			

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Substance identification

1.1.1. Chemical name

:4-oxo-5,6-dihydro-6-methyl-7,7-dioxo-4H-thieno[2,3-b]thiopyran-2-

sulfonamide

Methanol (nearly 3%)

Common names and Synonyms 1.1.2.

Chemical Abstract Nomenclature 1.1.1.

1.1.2. Application : intermediate for synthesis

1.2. Company identification

1.2.1. Company identification

ZACH SYSTEM S.p.A.

Via Dovaro - Almisano di Lonigo (VI) - Italy Phone +39/0444/433111 - Fax +39/0444/831192

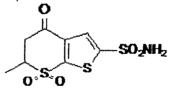
Emergency phone number 1.2.2.

+39/335/7803994; +39/335/1221704

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1. Number of CAS register
- 2.2. ECC number
- 2.3. Number of EINECS register
- 2.4. Molecular formula
- 2.5. Structural formula

: C₈H₉NO₅S₃



2.6. Molecular weight

: 295,34

3. HAZARD IDENTIFICATION

Highly flammable

Harmful: possible risk of irreversible effects through inhalation, in conta with skin and if swallowed.



4 - OXO**SULPHONE** (wet)

Substance:

MSDS nº 475 Ed. n° 01

Page 2

(EEC) – MATERIAL SAFETY DATA SHEET (in accordance with the Directive 91/155/CEE)						
OXO	Compilation date: Updating date:	28/05/2007				
HONE	Application:	☐ Active pharmaceutical ingredient				
et)	☐ Raw material	☐ Solvent				
n° 475 ° 01 ☐ Intermediate ☐ Catalyst						
e 2	☐Finished product	☐ Reagent				

4.	FIRST	AID	MF.	ASI	IRES

+39/0444/831192

4.1. Swallowing

Fax

: if victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid

immediately.

4.2. Inhalation

: Get medical aid immediately. Remove from exposure to fresh air immediately. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen.

4.3. Skin contact

: flush skin with plenty of soap and water for at least 15 minutes while removing contaminated

clothing and shoes. Get medical aid if irritation develops or persist.

4.4. Eyes contact

: flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower lids. Get medical aid immediately. Don't allow victim to rub or keep eyes closed.

4.5. Other information

: Note to physicians: effects may be delayed. Ethanol may inhibit methanol metabolism.

5. FIRE-FIGHTING MEASURES

5.1. Adequate extinguishing measures

: Dry chemical, carbon dioxide or alcohol-resistant foam as

5.2. Extinguishing measures to be avoided

appropriate for surrounding, fire and materials

5.3. Dangerous from combustion products

: Irritating and highly toxic gases may be generated by thermal decomposition or combustion. Can release vapors that form

explosive mixtures at temperatures above the flashpoint.

5.4. Special protection equipment for fire extinguishing

: As with all fires, evacuate personnel to a safe area. Firefighters should use self contained breathing equipment

and protective clothing

5.5. Other information

6. ACCIDENTAL RELEASE MEASURES

6.1. Absorbing and cleaning procedures : Scoop up with a non sparking tool, then place into a suitable container for disposal. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non combustible material such as earth, sand or

vermiculite.

6.2. People protection

: Wear approved respiratory protection, chemically compatible gloves and

protective clothing. Avoid breathing dust.

6.3. Other suggestions



Chemical plant:
Via Dovaro
Almisano di Lonigo (VI) - ITALY
Phone +39/0444/433111
Fax +39/0444/831192

	ERIAL SAFETY DA	
Substance: 4 – OXO	Compilation date: Updating date:	28/05/2007
SULPHONE	Application:	☐ Active pharmaceutical ingredient
(wet)	☐ Raw material	☐ Solvent
MSDS n° 475 Ed. n° 01	☑ Intermediate	☐ Catalyst

7	HAN	DLING	AND	STOR	AGE
	LIZIN		71111	13 I L/II	Δ

7.1. Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate

ventilation. Empty containers retain product residue and can be dangerous. Don't get on skin or in eyes.

Don't ingest or inhale.

7.2. Storage: Keep away from sources of ignition. Store in a cool, dry, well ventilated area away from incompatible

Page 3

substances.

8. INDIVIDUAL EXPOSURE/PROTECTION CONTROL

8.1. General information

8.2. Hygiene measures

: Good hygiene measures, normal precaution for chemical substance

8.3. Respiratory protection

: Approved dust mask or approved respirator with independent air supply

8.4. Hand protection

: Protective gloves chemically compatible

8.5. Skin protection

: Protect exposed skin

8.6. Eyes protection

: Safety glasses or goggles

8.7. Exposure limits

8.7.1. TLV/TWA (ACGIH, USA)

: 200 ppm (262 mg/m³) refered to methanol

8.7.2. TLV/CEILING (ACGIH, USA)

Also if there is not TLV operators must use all suitable security measures to limit smokes release in atmosphere and use all necessary equipments during handling or in case of emergency intervention.



Chemical plant:
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Almisano di Lonigo (VI) - ITALY
Phone +39/0444/433111
Fax +39/0444/831192

	ERIAL SAFETY Date with the Directive 91		
Substance: 4 – OXO	Compilation date: 28/05/2007 Updating date:		
SULPHONE	Application:	☐ Active pharmaceutical ingredient	
(wet)	☐ Raw material	☐ Solvent	
MSDS n° 475 Ed. n° 01	☑ Intermediate	☐ Catalyst	
344.77 VI	☐Finished product	☐ Reagent	

9. PI	HYSICAL AND CHEMICAL PROPERTIES	
9.1. As	spect	
9.1.1. 9.1.2. 9.1.3.	Physical state : Crystalline powder Colour : White off white Odour :	
9.2. Im	portant data for safety:	
9.2.1. 9.2.2.	Water solubility Solubility in main organic solvents	: Slightly soluble in methanol and soluble in hot acetone
9.2.3. 9.2.4. 9.2.5.	Density Melting point Boiling point	: : 195.77°C :
9.2.6. 9.2.7. 9.2.8.	Flash point Lower and higher flash limit in air (% vol.) Autoignition temperature	: <21°C : :
9.2.12. 9.2.13.	Vapor density Octanol/water partition rate (log P)	
9.2.15. 9.2.16.	Limiting oxygen concentration (LOC %v/v) MEC (minimum explosive concentration) MIE (minimum ignition energy) :	
9.2.18. 9.2.19.	MIT (minimum ignition temperature-dust cloud): LIT (minimum ignition temperature – powder in strate): Dust explosion constant (Kst):	
9.2.21.	Powder class (ST) : Estimated on set temperature of exothermic behaviour: Further information	1
	Manager Control of the Control of th	

Page 4

10. STABILITY AND REACTIVITY	Take the second of the second
10.1. Conditions to be avoided 10.2. Materials to be avoided	: Oxidants, active metals (methanol)
10.3. Dangerous decomposition products	: When heated to decomposition material emits toxic fumes of CO _x , NO _x ,
· · · · · · · · · · · · · · · · · · ·	SO _x . Emits toxic fumes under fire conditions.
10.4.: Other information	



Chemical plant: Via Dovaro

Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111

+39/0444/831192

(EEC) - MATERIAL SAFETY DATA SHEET (in accordar

Substance:

4 – **OXO SULPHONE** (wet)

> MSDS nº 475 Ed. nº 01

> > Page 5

nce with the Directive 91/	(155/CEE)
Compilation date:	28/05/2007
Updating date:	
Application:	☐ Active pharmaceutical ingredient
☐ Raw material	☐ Solvent
☑ Intermediate	☐ Catalyst
☐Finished product	☐ Reagent

11. TOXICOLOGICAL INFORMATION

11.1. Routes of entry:

11.1.1. Ingestion : Yes

11.1.2. Inhalation : Yes : Yes 11.1.3. Contact

11.2. General information:

11.3. Acute toxicity:

LD₅₀ (oral rat) [mg/kg]

: 5628 (methanol)

LD₅₀ (skin rabbit) [mg/kg]

: 15800 (methanol)

LC₅₀ (inhalation rat) [ppm/4h]

: 64000 (methanol)

LD₅₀ (oral mouse) [mg/kg]

: 7300 (methanol)

11.4. Other toxicity data:

LD₅₀ (oral rabbit) [mg/kg]

: 14200 (methanol)

11.5. Chronic toxicity:

Carcinogenicity: Not carcinogen for ACGIH, IARC, NIOSH, OSHA, NPT (methanol)

Mutagenicity

: DNA Damage: oral-rat 10 umol/kg. DNA Inhibition: human lymphocyte 300 mmol/l. Microbial

Mutation w/o S9: S. cerevisiae (methanol)

Teratogenicity

: Effects on newborn: behaviorial, oral rat TDLo = 7500 mg/kg. Embryo or fetus: fetotoxicity, TCLo = 10000 ppm/7h. Specific Developmental Abnormalities: cardiovascular, musculoskeletal, urogenital,

TCLo = 20000 ppm/7h (methanol)

11.6. Corrosive/Irritant action:

11.6.1. Skin

: Not available

11.6.2. Eyes

: Not available

11.6.3. Mucous membrane

: Not available

11.7. Other information: Reproductive effects: spermatogenesis, ipr-mouse TDLo = 5 g/kg (methanol)



Chemical plant: Via Dovaro

Almisano di Lonigo (VI) - ITALY Phone +39/0444/433111 Fax +39/0444/831192

	TERIAL SAFETY Innce with the Directive 9		
tance: 4 – OXO	Compilation date: 28/05/2007 Updating date:		
SULPHONE	Application:	☐ Active pharmaceutical ingredient	
(wet)	☐ Raw material	☐ Solvent	
MSDS n° 475	☑ Intermediate	☐ Catalyst	

☐Finished product ☐ Reagent

Ed. nº 01

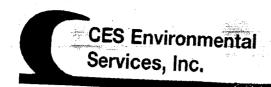
Page 7

Substance:

A DECLY A TODAY DIDONAL TYCKY				
15. REGULATORY INFORMATION				
15.1.Labeling in accordance with ECC Directive	e: 1) le	gal	2) temporary	3) not required
		F		Xn
		HYGHLY FL	AMMABLE	HARMFUL
15.2. R phrases	: 11	Highly flammal		
		in contact with	skin and if swallow	e effects through inhalation, ed.
15.4. S phrases	36/37 Wear s 45 In case	of accident or if	closed. clothing and glove you feel unwell, se label where possibl	ek medical advice
15.5.Law references:		en general de de la companya de la c	1 (1985) 1 (1.25 (
15.5.1. Medical checks of law: Periodic are regulations	3.	ical examinations	according to physi	cian and Italian
15.5.2. DPR 175/88 and following updating	ngs:	No. 1	- K.	
15.5.3. Compulsory insurance (table DPR	336/94 – Italiai	n regulation-):		
Sugar sugar		Sewin et alle yeke		

Each

EPAHO108001651



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Ronald Smith

Twink you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2662

Expiration Date 3/19/2010

Generator: ZaCh System Corp. (La Porte)

Address:

914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: RCRA empty lab containers

TCEQ Waste Code #: 00460031

Container Type:

Detailed Description of Process Generating Waste: Various emptied glass containers and sample bottles

Color: various

Odor: moderate

pH: na

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener						
Company:	ZaCh Systems, Inc.					
Address:	914 16 th Street		·			
City, State, Zip:	LaPorte, TX. 7757					
Contact:	Ronald Smith	Title:	HS&E Man			
Phone No:		181-842-0201	Fax No:	281-471-29	85-281-867-1734	
24/hr Phone:	281-842-03	245				
U.S. EPA I.D. No:	TXR000079062		1010	1 1		
State I.D.	88429	·	SIC Code:	<u>~ ~ / ~ / </u>		
SECTION 2: Billing Company: Address:	z Information – 🛛 S	ame as Above				
City, State, Zip: Contact:		Title:				
Phone No:		Fax No:				
rnone No:		rax No:				
SECTION 3: Gener	al Description of the	Waste				
Name of Waste: RC Detailed Description	RA empty lab contain of Process Generati	ers ng Waste: Various empt	ied glass lab conta	iners & sample	e bottles	
Physical State:	Liquid	☐ Sludge	Powder			
	⊠ Solid	☐ Filter Cake	Combination	n		
	Z Sond	Thereare	Combination	••		
Color: various	o	dor: moderate				
Specific Gravity (wa	ter=1):	Density: <u>15</u> lbs/g	at-			
Does this material co	ontain any total phen	olic compounds? 🔲 Yo	es 🛛 No			
Does this material co	ontain any para subs	tituted phenolic compor	ınds? ☐ Yes 🏻 🖸	⊠ No		
Layers:	Single-phase	☐ Multi-phase				
Container Type:	□ Drum	☐ Tote	☐ Truck	ПО	Other (explain)	
Container Size:	55 gal				(F)	
Container Size.	<u>oo gar</u>	·- <u>-</u>				
Frequency:	☐ Weekly	☐ Monthly	◯ Quarterly	П .	early	
•	_ •		△ Quarterly	,	learly	
Number of Units (co Texas State Waste C	, 	Other:				
Proper U.S. DOT Sh	ipping Name:	Non-RCRA/Non D	OT regulated (RC	CRA Empty bo	ttles)	
Class:	UN/NA	\:	PG:	100	RQ:	
Class.		·		<u>na</u>	10	

Flash Point <u>N/A</u>	pH N/A	Reactive Sulfides	Reactive Cya	nides Solids
Oil&Grease	TOC	Zinc	Copper	Nickel
mg/l	<u>i\{_</u> mg/l	<i>NQ</i> _mg/l	i\cdot_mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
RCRA empty glass containers	60-90	%	
Various debris	10-40	%	

SE	CTI	ON	5:	Safety	Related	Data
----	-----	----	----	--------	---------	------

If the handling o	of this waste requires	the use of special	protective equipment	, please explain.
- std	Î	-		•
<u> </u>				

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Analysis attached neel

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	_χ
TCLP Semi-Volatiles:	
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	Х

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

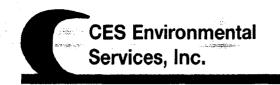
Authorized Signature:	Date: 1/100
Printed Name/Title: Ronald Smith - EHS WANAGOTO	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Pallut Hay A Date: 3-19-08 Approved Rejected	
Approval Number: Z66Z	

21	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Met	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
\exists	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2663

Expiration Date 3/19/2010

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Recycled oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Various

Color: .85

Odor: 7-8

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 RAJRC traport missing

SECTION 1: General	ator Information ZaCh Systems, Inc						
Company: Address:	914 16 th Street	<u>'•</u>					
City, State, Zip:	LaPorte, TX. 7757	1					
Contact:	Ronald Smith		· · · · · · · · · · · · · · · · · · ·		Title:	HS&E M	anager
Phone No:	281-471-5147 2	31-81	42 0201		Fax No:		2985 281-867-1734
24/hr Phone:	281-842-0	245					
U.S. EPA I.D. No:	TXR000079062					•	
State I.D.	88429				SIC Code:	NA	
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛛 S	Same a	s Above				
Contact:			Title:				Managers, https://doi.org/10.1000/10.1
Phone No:			Fax No:	: -			
SECTION 3: Genera	al Description of the	e Wast	<u>e</u>	_			
Name of Waste: Rec Detailed Description		ing Wa	aste: <u>Various</u>				
Physical State:	☑ Liquid☐ Solid		Sludge Filter Cake		Powder Combination	1	
Color: light brown-bla	ack ()dor: 1	<u>mild</u>				
Specific Gravity (wat	er=1): <u>0.85</u>		Density: 1-9	bs/gal			
Does this material co	ntain any total phe	olic c	ompounds? 🗌 Y	es	⊠ No		
Does this material co	ntain any para subs	titute	d phenolic compo	unds?	Yes 🗵] No	
Layers:	⊠ Single-phase		☐ Multi-phase	;			
Container Type:	□ Drum		Tote		Truck	П	Other (explain)
Container Size:	55 gal					_	,
- James July	<u></u>		-				
Ewa gray av	□ W1-1		Monthl-	\boxtimes	Onortoul	г	Voordy
Frequency:	Weekly	لــا	Monthly		Quarterly	Ш	Yearly
Number of Units (cor	,		Other:				
Texas State Waste Co	oae No: 		CYCLF				
Proper U.S. DOT Shi	pping Name:		Non-RCRA / Non	DOT	Regulated (re	cycled oil)	
Class:	UN/N	A: _	na		PG:	<u>v.</u>	RQ: Na

Flash Point 135	pH <u>N/A</u>	Reactive SulfidesN_mg/l	Reactive Cya	nides Solids
Oil&Grease	TOC 715% mg/l	Zinc mg/l	Copper // mg/l	Nickel // mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Petroleum distillates///	100	%
,		

	SECTION	5:	Safety	Related	Data
--	----------------	----	--------	---------	------

If the ha	andling o	f this waste	requires	the use o	of special	protective	equipment,	please	explain.
_		-							

- SHU PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis attached

SECTION 7: Incompatibilities

Please	list	all	incompatibilities	(if	any):
		77		'	

__acidizus

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles:	$\overline{\mathbf{x}}$
TCLP Semi-Volatiles:	$\frac{X}{X}$
Reactivity: Corrosivity:	
Ignitability:	

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Revald Snith - EHS MANAGER	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Date: 3-19-08	\$65 dm; Chlo-D-Tet, Flash FSC +Thens

<u>S</u> 1	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Met</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	unics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
靣	Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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ax: (281) 471-582	860-0156 21 / After Hours: (281) 844-2		10. / 1.2.6	76	146	<u> </u>			Phone Fax:	e:										Coder	邓). (°C)		Preservati Fes) N		
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	P:Plastic G:Glass V:VOA Glas	ss O:Other				· 				1:1	œ(<4	°C) 2	HCL	3:H2	SO4 4	4:HN	<u> </u>	NaOl	6:N	aOH+Z	n Acr	state 7:1	Na2S2	03 8:No	one	_

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62991.02

1of 1

Customer: CES Env.

Sample ID: 0208-70

Environ ID: 62991.02

Project ID: Zach Systems

Matrix: Oil

Sampled: 02-29-08 13:15 Received: 02-29-08

Project Loc: La Porte, TX

Type:

Charge/P.O.:

Reported: 03-05-08

RECEIVED BASIS

			TILOCITED OF						
ANALYTE /	F	RESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT	.	METHOD	BY		
FLASH	T								
Ignitability	1	135	°F	> 140		EPA SW846.1010	LC .	03-03-08	8:50
METALS (RCRA) - Total	1							1	
Arsenic	<	0.5	mg/kg	-	0.5	SW846.6010B	JA	03-04-08	14:05
Barium	<	0.5	mg/kg		0.5	SW846.6010B	JA	03-04-08	14:05
Cadmium	<	0.5	mg/kg		0.5	SW846.6010B	JA	03-04-08	14:05
Chromium	<	0.9	mg/kg		0.9	SW846.6010B	JA	03-04-08	14:05
Lead	<	0.9	mg/kg		0.9	SW846.6010B	. JA	03-04-08	14:05
Selenium	<	0.7	mg/kg	-	0.7	SW846.6010B	JA	03-04-08	14:05
Silver	<	0.5	rng/kg		0.5	SW846.6010B	JA	03-04-08	14:05
Mercury	<	0.025	mg/kg		0.025	SW846.7471A	MN	03-01-08	10:30
	1		i	1					

TCLP - Toxcisity Charasteric Leaching Proce su - Standard Units

REG - Regulatory Limit (User Should Confirm VOC - Volatile Organic Compounds

MQL - Method Quanitation Limit

SVOC - Semivolatile Organic Compounds

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D Laboratory Director

champion 2604 2664



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Jim Scialabba

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2664

Expiration Date 3/19/2010

Generator: Champion Technologies

Address: 3131 FM 521

Fresno, TX 77545

Waste Information

Name of Waste: RO Reject water TCEQ Waste Code #: 41652191

Container Type:

Detailed Description of Process Generating Waste:

Water from the sink in the laboratories (no chemicals) is pumped into the RO. Water tha not captured by the RO goes into the reject water tank.

Color: clear

Odor: none

pH: 6-8

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

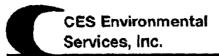
std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road Phone: (713) 676-1466 Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information													
Company:	Champion Techno	ologies												
Address:	3131 FM 521													
City, State, Zip:	Fresno, TX 7754	5												
Contact:	Steve Blair		Title:											
Phone No:	281-431-3614	·	_ Fax No:	281-431-3667										
24/hr Phone:														
U.S. EPA I.D. No:	TXD000356816			ł a										
State I.D.	31502		SIC Code:	ΜΛ										
SECTION 2: Billing Information - Same as Above														
Company:	Champion Technolo													
Address:	3130 FM 521													
City, State, Zip:	Fresno, TX 77545													
Contact:	Steve Blair	Title:												
Phone No:	281-431-3614	Fax No:	281-431-366	7										
, -														
SECTION 3: Gener	ral Description of th	e Waste												
Name of Waste: RO Reject Water Detailed Description of Process Generating Waste: Water from the sink in the labratories (no chemicals) is pumped into the RO. Water that is not captured by the RO goes into the reject water tank.														
	p.m.,		_											
Physical State:	🛛 Liquid	Sludge	Powder											
	_	· — •												
	☐ Solid	Filter Cake	 ☐ Combination	on										
	☐ Solid	Filter Cake	Combination	on .										
Color: <u>clear</u>	•	Filter Cake Odor: none	Combination	on ·										
Color: <u>clear</u> Specific Gravity (wa				on										
Specific Gravity (wa	iter=1): <u>1</u>	Odor: <u>none</u>	al	on										
Specific Gravity (wa	iter=1): <u>1</u> ontain any total phe	Odor: <u>none</u> Density: <u>8.34</u> lbs/g	al 🛭 No	on ☑ No	ng paga na gan									
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Specific Gravity (was Does this material container Type: Container Size;	uter=1): <u>1</u> ontain any total phe ontain any para sub Single-phase Drum	Odor: none Density: 8.34 lbs/g enolic compounds? Yes estituted phenolic compoun Multi-phase Tote	al No ds? Yes Truck 5000 gal	☑ No □ Other (explain) ———										
Specific Gravity (was Does this material container Type:	uter=1): 1 ontain any total phe ontain any para sub Single-phase	Odor: none Density: 8.34 lbs/g enolic compounds? Yes estituted phenolic compoun Multi-phase	al ⊠ No ds? □ Yes □	⊠ Na	Turk tri ve t									
Specific Gravity (was Does this material container Type: Container Size;	nter=1): 1 ontain any total phe ontain any para sub Single-phase Drum Weekly	Odor: none Density: 8.34 lbs/g enolic compounds? Yes estituted phenolic compoun Multi-phase Tote	al No ds? Yes Truck 5000 gal	☑ No □ Other (explain) ———										
Specific Gravity (was Does this material co Does this material co Layers: Container Type: Container Size: Frequency:	ontain any total phe ontain any para sub Single-phase Drum Weekly	Odor: none Density: 8.34 lbs/genolic compounds? Multi-phase Tote Monthly	al No ds? Yes Truck 5000 gal Quarterly	☑ No ☐ Other (explain) ——— ☐ Yearly										
Specific Gravity (was Does this material container Type: Container Size: Frequency:	ontain any total phe ontain any para sub Single-phase Drum Weekly	Odor: none Density: 8.34 lbs/genolic compounds?	al No ds? Yes Truck 5000 gal	☑ No ☐ Other (explain) ☐ Yearly										

>140 6-8	Reactive Sulfides	Reactive Cyanide	es Solids
Oil&Grease TOC <1000mg/l 1500m	Zinc	Copper 0.023mg/l	Nickel Omg/l

SECTION 4: Physical and Chemical Data

BOVIESTANCES SAIS		Constitution	Units
The waste consists of the following	ng materials	Ranges are acceptable	or %
Water		99-100	%
Salids		0-1	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical 7090324

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

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SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

	Authorized Signature	::	to blo	·		Date: 3-/	14-08	**
	Printed Name/Title:	Steve I	Blair - Fac	cility &c	oject Cool	divotor	<u>-</u>	
atra	CES USE ONLY (DO NO)	WRITE IN TI	HIS SPACE)			voca lina a marana	mana makabaharan kanan mengalik dalam	Contable to Committee or Conta
	Compliance Officer:	Jobhn	Depl					
	Date: 3-14-08	Tree I was a	Approved	Rejected		Park and the state of the state		
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Sec. 201	Approval Number:	- commitment and a	64 <u>*</u>				and the second s	
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his material a wastewater or wastewater sludge? YES NO Yes', complete this section. EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Is Subcategory: Subpart A
EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
le Cubaatagams Cubnast A
s Subcategory. Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
nics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

(1)	if the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess alues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

 \boxtimes

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Disposal: \$0.08/gallon
	Freight: \$69.00/hour
2.	Contamination Limits (maximum limit before surcharges apply):
4.	
l	Solids: Max 1%
	TOC: Max 5,000
}	
Į	
3.	Surcharge Pricing:
	Solids: \$0.01/gallon/percent greater than 1%
	TOC: \$0.03/gallon/5,000 TOC greater than 5,000 TOC
	100. Wolonganon 100 grand and 0,000 100
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4.	Special Testing Requirements:
[TOC, pH, metals, phenol.
	phy methods promite
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5.	Treatment and Handling Protocol:
Ì	wastewater treatment
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6.	Treated Wastewater Discharge Subcategory:
V.	Treaten Transferrater Discharge Subcategory.
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
ĺ	☐ Subcategory A ☐ Subcategory B ☑ Subcategory C
L	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable): NA
8.	
8.	
8.	

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460

ax: (713) 676-1676

Attn: Dana Carter #

- CERTIFICATE OF RESULTS -

MES Lab#:

7090324

Client Sample ID:

Lab Rinse Water

Extended ID:

Champion

Sample Collect Date: 9/11/2007 @ 4:30:00 PM

2007 @ 4:30:00 PM Sample Type:

Sample Receipt Date: 9/12/2007 @ 4:40:00 PM

Grab

TCLP Volatiles Method: SW-846 8250B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.010	0.2	< 0.010	mg/L	9/13/2007 / 3:11 AM
1,1-Dichloroethene	0.015	0.7	< 0.005	-	9/13/2007 / 3:11 AM
2-Butanone	0.005	0.7 200	< 0.005	mg/L	9/13/2007 / 3:11 An
Chloroform	0.005	6	< 0.005	mg/L	
Carbon tetrachloride				mg/L	
	0.005 0.005	0.5 0.5	< 0.005 < 0.005	mg/L	9/13/2007 / 3:11 AM
1,2-Dichloroethane				mg/L	9/13/2007 / 3:11 AM
Benzene Trichloroethene	0.005 0.005	0.5 0.5	< 0.005 < 0.005	mg/L	9/13/2007 / 3:11 AM
				mg/L	9/13/2007 / 3:11 AM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	9/13/2007 / 3:11 AM
Chlorobenzene	0.005	100	< 0.005	mg/L	9/13/2007 / 3:11 AN
1,4-Dichlorobenzeле Hexachlorobutadlene	0.005 0.005	7. 5 0.5	< 0.005 < 0.005	mg/L mg/L	9/13/2007 / 3:11 AM 9/13/2007 / 3:11 AM
TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time
Pyridine	0.05	5	< 0.05	mg/L	9/15/2007 / 10:10 A
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	9/15/2007 / 10:10 A
o-Cresol	0.05	200	< 0.05 < 0.05	_	9/15/2007 / 10:10 A
·	0.05	200	< 0.05 < 0.05	mg/L mg/L	9/15/2007 / 10:10 A
m+p-Cresol	0.05	3	< 0.05	_	9/15/2007 / 10:10 A
Hexachloroethane	0.05	2	< 0.0 5	mg/L	
Nitrobenzene				mg/L	9/15/2007 / 10:10 A
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	9/15/2007 / 10:10 A
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	9/15/2007 / 10:10 A
2,4,5-Trichlorophenol	0.05	400	< 0.05	mg/L	9/15/2007 / 10:10 A
2,4-Dinitrotoluene	0.05	0.13	< 0.05	mg/L	9/15/2007 / 10:10 A
	0.05	0.13	< 0.05	mg/L	9/15/2007 / 10:10 A
Hexachlorobenzene Pentachlorophenol	0.50	100	< 0.50	mg/L	9/15/2007 / 10:10 A

Report Date: 20-Sep-07

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

7090324

Client Sample ID:

Lab Rinse Water

Extended ID:

Champion

Sample Collect Date: 9/11/2007 @ 4:30:00 PM

Sample Receipt Date: 9/12/2007 @ 4:40:00 PM

Sample Type:

Grab

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time	
Antimony	0.032	1	< 0.032	mg/L	9/18/2007 /	6:19 PN
Arsenic	0.050	5	< 0.050	mg/L	9/18/2007 /	6:19 PN
Barium	0.002	100	0.030	mg/L	9/18/2007 /	6:19 PN
Beryllium	0.005	80.0	< 0.005	mg/L	9/18/2007 /	6:19 PM
Cadmium	0.004	1	< 0.004	mg/L	9/18/2007 /	6:19 PN
Chromium	0.007	5	< 0.007	mg/L	9/18/2007 /	6:19 PM
Lead	0.010	` 5	< 0.010	mg/L	9/18/2007 /	6:19 PM
Nickel	0.015	70	< 0.015	mg/L	9/18/2007 /	6:19 PM
Selenium	0.050	1	< 0.050	mg/L	9/18/2007 /	6:19 PN
Silver	0.002	5	< 0.002	mg/L	9/18/2007 /	6:19 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	9/14/2007 /	7.00 51
Reactivity, Recoverable Hydrog Method: 7.3.3.2	MDL	_	Result	Units	Analyst: CL Date / Time	·
Hydrogen Cyanide	0.25		< 0.25	mg/kg	9/13/2007 /	1:00 PM
Reactivity, Recoverable Hydrogi Method: 7.3.4.2	en Sulfide MDL		Result	Units	Analyst: CL Date / Time	
Hydrogen Sulfide	0.25		< 0.25	mg/kg	9/17/2007 /	9:50 AM
Corrosivity: pH Method: SW-846 9045	MDL		Result	Units	Analyst: JE Døte / Time	
οH			7.27		9/14/2007 /	1:00 PM
gnitability Method: SW-846 1010	MDL		Result	Units	Analyst: DEB Date / Time	
Flashpoint			>150	deg F	9/13/2007 /	10:35 AI

Flags: HI Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Date

Report Date: 20-Sep-07

Page 2 of 2

Thursday, September 20, 2007

7090324

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

SURRUGAT	E SPINE RECOV	EKT FU	KVULA	IILES			% REC	<u> </u>	
Dibromofluor Toluene-d8	omethane				•		90.3 97.0		
4-Bromofluor	obenzene	-	4		• • • • • • • • • • • • • • • • • • • •	ar i	91.4		
SURROGAT	E SPIKE RECOV	ERY FO	RSEMI	OLATI	LES	,	% REC		
2-Fluoropher	nol						40.0		
Phenol-d6							60.9		
Nitrobenzene							42.8		
2-Fluorobiphe							76.4		
2,4,6-Tribron							66.9 51.7		
p-Terphenyl-	J 14						51.7		
	MB	LCS	LCSD		ССВ	CCV	MS	MSD	
ANALYTE	mg/L	%REC	%REC	RPD	mg/L	%REC	%REC	%REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87 404	64.9	61.8 75.6	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06
Abi a 1 20000		ORIG	DUP	222					
ANALYTE		mg/kg	mg/kg	KPD				·	
Reactivity as	Hydrogen Sulfide	< 0.25	< 0.25	0.00					

Reactivity as Hydrogen Sulfide < 0.25 < 0.25 0.00

SURROGATE SPIKE RECOVERY FOR VOLATILES

·	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide <	< 0.25	< 0.25	0.00	95

- Mercury Environmental Services, Inc. --

% RFC

7090324

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT CONTINUED

ANALYTE	·	ŞTD			
Flashpoint	44. **	82°F		t man	
ANALYTE	BUFFER 7.0	ORIG DUF	P RPD		
рН	7.0	2.10 2.06	1.92		

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature:

Holland D. Gilmore / Laboratory Director

September 20, 2007

Mercury Environmental Services, Inc. •

- CHAIN OF CUSTODY

Mercury Environmental Services 6913 Hwy. 225 • Deer Park, TX 77536

PARAMETERS FOR ANALYSIS

1-800-771-4MES

(281) 476-4534

Fax (281)-476-4406

REMARKS

DETECTION LIMITS SPECIAL LIMITS REQUIRED

Please circle one, if Yes.

Yes

STATE GOLLORANGE

09/21/2007

12:

MES

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ES. Environmental Sensices Inc

ince Wate

STATE 1

COMPANY NAME: (BILL TO:) &

CONTACT PERSON'S NAME:

CONTACT PERSON'S PHONE: OUR PROJECT NO.:

PROJECT ADDRESS

COMPANY ADDRESS: 4904 Origas Road

YOUR P.O. #:

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COMPANY NAME: (BILL TO:)			Sen:	ricoli	20	M	ES		- Cł	AIA:	OF	CUS	TODY	1-800-771-4MES (281) 476-4534
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CONTACT PERSON'S PHONE:					4	$7 \equiv /$	\$ /z	···· /			/	/ <u> </u>		Standal
YOUR PROJECT NO.: YOUR P.O. #:	In		OJECT NAM		1/	≤ 1	<i>?</i> /\s				/	/ ပွိ	SNO	DETECTION LIMITS
PROJECT ADDRESS:\		2 11 11	V V V	\ <u>.</u>		J/.	}/	/	/ /	/	/	ER O	PVA7	SPECIAL LIMITS'REQUIRED Yes No
	Tananana I				// [2/2	$T \gtrsim 1$	/ \d	' /	1	/ ,	NOWB	PRESERVATIONS	Please circle one, if Yes, please describe below
YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATR	X		- Ame-							or include separate
11 ab Rinselvater				1114	<u> </u>	X								sheet detailing requirements.
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METHOD OF PAYMENT SHIP (Signal	PED BY: iture)		C	OURIER Signature)				REC (Sign:	EIVED FO	R MES	BY:			DATE TIME
									200					
Sample Remainder Disposal				ł	☐ I Reque	st Lab To	Dispose (Of All Sa	mple Rer	mainde	ers			
☐ Return Sample Remainder To Client Via					(Signature)							(0	ate)	



Sample Evaluation Form

Sample ID # <u>OOUS</u>	Date///				
Please Complete This Section					
Generator / Customer Name : Mamp In Tech	indicay				
Name or Type of Waste: Do Reject Water	77				
Process Generating Waste: PINSCUNGER From 10	Ub (no Chemicals				
Number of Samples : Submitted By :					
Analysis To Be Completed: Treatabilin, TOC,	, SUCIGER Price				
Turnaround Time :	J'				
Other:					
(Lab Use Only)				
Sample Results : TOC = 1476	0.08 49				
Suggested Method of Treatment: Copper · 0.023					
Suggested Price Range:	GC.0				
Sample Results Reported to (dd micon					
Test Completed By : 66 Date : 09 / 12/07	Time: 100 P				

Schooner 2665





Waste Pre-Acceptance/Approval Letter

Date 3/20/2008

Dear Kevin White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2665

Expiration Date 3/20/2010

Generator: Schooner Petroleum - Houston

Address: 9837 Windmill Park Lane

Houston, TX 77064

Waste Information

Name of Waste: Test dirt and oil TCEQ Waste Code #: CESQ3191

Container Type:

Detailed Description of Process Generating Waste:

Dirt from soil testing

Color: brown

Odor: hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISW

ISWR No: 30900

SECTION 1: General Company: Address:	9837 W	indmil Park &	eleva Lane			
City, State, Zip:	Houston			10. 3		
Contact:		/iew	Title:	Mant. Myr.		
Phone No:	281-194-	1770	Fax No:			
24/hr Phone:						
U.S. EPA I.D. No:	Crsuc		–			
State I.D.	CESQU	•	SIC Code:			
SECTION 2: Billing Company: Address: City, State, Zip: Contact: Phone No:	Schot 9 223 MCC	Environt My Dr. 77029 Title:	Salis 7-255-	1761		
SECTION 3: General Description of the Waste						
Name of Waste: 10st Dirt toil Detailed Description of Process Generating Waste: Dirt from soil testing						
Physical State:	☐ Liquid ☑ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination			
Ba		Ior: Hydroca-bo-				
Color: 1/0.	O.	ior:				
Specific Gravity (water=1): Density: Ibs/gal						
Layers:	Single-phase	Multi-phase				
Container Type:	Drum .	Tote [Truck	Other (explain)		
• "	55.1.			_ `` '		
Container Size:	20571	A		-		
Frequency: Number of Units (cor	Weekly	Monthly 5	☑ Quarterly	☐ Yearly		
Texas State Waste Code No: (E/23191						
Proper U.S. DOT Shipping Name: Non - RCRA (Non DOT Regulated Wester Solds						
Class:	UN/NA	:	PG:	RQ:		
	Т Т	Desettes Cultidas	Reactive Cy	anides Solids		
Flash Point	pH 37~//	Reactive Sulfides とな mg/l	CZ_mg/l	100%		
7163		Zine	Copper			
Oil&Grease	TOC	A/A mo/l	M M mg/l	Nickel Mmg/l		

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Dirt		95
oil		5

<u></u>	<u> </u>			
				·
SECTION 5: Safety Re	lated Data			
If the handling of this w	aste requires the use of	special protective equipm	ent, please explain.	
SECTION 6: Attached	Supporting Documents			
List all documents, note	s, data, and/or analysis	attached to this form as p	art of the waste approval	package.
SECTION 7: Incompat	ibilities			
Please list all incompati	bilities (if any):			
		,		
SECTION 8: Generato		ntation		
Laboratory analysis of a generator knowledge:	the hazardous waste ch	aracteristics, listed below,	WAS NOT PERFORME	D based upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:				
attached description is of composition tested are representative	ed herein is based on complete and accurate to properties exist and the of all materials described	o the best of my knowled at all known or suspected by this document.	ge and ability to determine hazards have been disclose	reby certify that the above and that no deliberate or willfured. I certify that the material
Authorized Signature: Printed Name/Title:	authorized age Kenny W	nt for generator hete	Date: 3/19	3/08
CES USE ONLY (DO NOT) Compliance Officer: Date:	obher The Approved	Y	anal Information: 475 Jam, F Class 1 Se	esc, thans

SECTION 10: Waste Receipt Classification Under 40 CFR 437

ls this materia	a wastewater	or wastewater	sludge?		YES
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T PAGE.

	- The state of th
If	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEX
Meta	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils !	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	MATRIX	COMPIGRAB	BXEX (8021)	(1X1) Had	MTBE	PAH	VOLATILES	SEMI-VOLS	RCR HETT'S												İ
62963.01	" Schooner Dirt	2-18-08	50	6	7	7	=		一	7	7	\dagger											
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<u> </u>	² Container T	/pe Кеу	ac:56	earment	Li Le	acnat	e sal:	AAIDS						3	Pres	ervat	ive	Kev		zetate 7:t	NascaUs	8:None	**
Defines of sevelen	P:Plastic G:Glass V:VOA Glass C		ion Colu	odula					1:10	06(<4,	G) Z:H	ا: مان	12504	4:11	iU3	(OBM.	3 01	*aUn*	KII MC	ciais 1.1		-27	



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE NO:

62963.01

1of 1

Customer: Select Env.

Sample ID: Schooner Dirt

Environ ID: 62963.01

Project ID: Schooner Dirt Project Loc: Houston Site

Sampled: 02-18-08 Received: 02-22-08

Charge/P.O.:

Matrix: Soil Type: Grab

Reported: 02-29-08

			PACKAGE:	A (AS He	eceived Ba	isis)			
ANALYTE/	R	ESULT	UNITS	REG.	DET.	TEST	TEST	DATE	TIME
PARAMETER				LIMIT	LIMIT	METHOD	BY	<u> </u>	
BTEX - TOTAL									
Benzene	<	0.001	mg/kg	-	0.001	EPA SW846.8021B	DMB	02-25-08	12:41
Toluene	<	0.001	mg/kg	-	0.001	EPA SW846.8021B	DMB	02-25-08	12:41
Ethylbenzene	<	0.001	mg/kg		0.001	EPA SW846.8021B	DMB	02-25-08	12:41
Xylenes	. <	0.003	mg/kg	-	0.003	EPA SW846.8021B	DMB	02-25-08	12:41
Total BTEX	٧	0.006	mg/kg	~	l	EPA SW846.8021B	DMB	02-25-08	12:41
TPH - TOTAL PETROLEUM HYD	ROC/	ARBONS		!	ĺ				
nC6 to nC12 (GRO)	<	50	mg/kg	ļ 	50	TCEQ 1005.3	DB	02-25-08	16:27
> nC12 to nC28 (DRO)	<	50	mg/kg	-	50	TCEQ 1005.3	DB	02-25-08	16:27
> nC28 to nC35 (ORO)	<	50	mg/kg	-	50	TCEQ 1005.3	DB	02-25-08	16:27
TPH (Total > nC6 to nC35)	<	50	mg/kg	500	50	TCEQ 1005.3	DB	02-25-08	16:27
METALS -TCLP						EPA SW846.1311	MN	02-22-08	1 1
Arsenic	<	0.1	mg/l	5	0.1	EPA SW846.6010B	JА	02-25-08	13:00
Barium		2.8	mg/i	100	0.1	EPA SW846.6010B	JA	02-25-08	13:00
Cadmium .	<	1.0	mg/i	1	0.1	EPA SW846.8010B	JA	02-25-08	13:00
Chromium	<	0.1	mg/l	5	0.1	EPA SW846.6010B	JA	02-25-08	13:00
Lead	<	0.1	mg/l	5	0.1	EPA SW846.6010B	JA	02-25-08	13:00
Selenium	<	0.1	mg/i	1	0,1	EPA SW846.6010B	JA	02-25-08	13:00
Silver	<	0.1	mg/l	5	0.1	EPA SW846.6010B	JA	02-25-08	13:00
Mercury	<	0.02	mg∕l	0.2	0.02	EPA SW846.7470A	MN	02-26-08	09:00

Key

REG - Regulatory Limit (User Should Verily)

DET - Detection Unit

TCLP - Toxcisky Characteristic Leaching Procedure

GRO - Gasoline Range, DRO - Diesel Range, ORO - Oil Range

mg1 · PPM by Volume

mg/kg - PPM by Weight SU - Standard Units

ametgiSm - pm

kg - köograms

John Keller, Ph.D **Laboratory Director**



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

63003.01

1of 1

Customer: Select Environmental

Sample ID: Portwall Dirt

Environ ID: 63003.01

Project ID: Econo-rail

Matrix: Soil

Sampled: 03-13-08

Project Loc: Houston Portwall

Received: 03-13-08

Charge/P.O.:

Type: RECEIVED BASIS Reported: 03-20-08

ANALYTE /	F	RESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT		METHOD	BY	<u> </u>	<u> </u>
BTEX									
Benzene	<	0.005	mg/kg)	0.005	SW846.8021B	DMB	03-19-08	23:12
Toluene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	03-19-08	23:12
Ethylbenzene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	03-19-08	23:12
Xylenes	<	0.015	mg/kg	 	0.015	SW846.8021B	DMB	03-19-08	23:12
Total BTEX	<	0.030	mg/kg			SW846.8021B	DMB	03-19-08	23:12
TOT. PET. HYDROCARE	ON								i .
GRO (Gasoline Range)	<	1,209	mg/kg		1,209	TCEQ 1005.03	DB	03-18-08	13:22
DRO (Diesel Range)		6,090	rng/kg		1,209	TCEQ 1005.03	DB	03-18-08	13:22
ORO (Oil Range)		4,669	mg/kg	-	1,209	TCEQ 1005.03	DB	03-18-08	13:22
TOTAL TPH		10,759	mg/kg		1,209			03-18-08	13:22
RCI	ı							1	1
Reactive Cyanide	<	50	mg/kg	250	50	SW846.7.3.3	LC	03-20-08	
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	LC	03-20-08	
Corrosivity (pH)		7.35	su	⇒>2; =<12.5		SW846.9045C	LC	03-18-08	1
Ignitability	>	160	°F	> 140	-	SW846.1010M	LC	03-19-08	4
METALS (RCRA) - TCLP						SW846.1311	MN	03-13-08	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-17-08	
Barium		1.47	mg/l	100	0.02	SW846.6010B	JA	03-17-08	
Cadmium	< .	0.02	mg/l	1.00	0.02	SW846.6010B	JA IA	03-17-08 03-17-08	1
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-17-08	
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA JA	03-17-08	1
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA JA	03-17-08	1
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	MN	03-17-08	
Mercury	<	0.002	mg/i	0.200	0.002	SW846.7470A	IVIIV	03-17-00	10.00

Definitions:

TCLP - Toxcisity Charasteric Leaching Procedur TPH - Total petroleum Hydrocarbons

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

MANALYSIS: BTEX	METUOD, ED	A SW846/5030/8021B	ASATONY O II
IANALYSIS: BTEX	OMPTHOD: PP	A SWXA6/5030/8021R	MATRIX: Soil
Butter mit Com. Dimit	MC11100. L1	71 0110-07000000000000000000000000000000	

ANALYST:		!UNITS:		
	dmb		mg/kg	INO.SAMPLES: 1

SAMPLES:				
	_			

MATRIX	MATRIX	SPIKE	MS	MS	M\$D	RPD	CCV	MB	QC LIMIT	S (%)
8030064	RESULTS	ADDED	RESULTS	REC_	REC		REC		REC-RANGE	RPD
BENZ	0	394	301	76	84	9	91	0	60 - 120	20
TOL	0	394	310	79	84	7	91	0	60 - 120	20
ETBZ	0	394	306	78	85	8	88	0	60 - 120	20
XYLS	0	1181	958	81	91	11	96	0	60 - 120	20
MTBE	0	394	413	105	104	1	114	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

John Keller

3/20/08

JOHN KELLER, Ph.D Lab.Dir./QA-QC Mgr.

4 2 5

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3

ANALYST:	-1 1-	IMATRIX:	SOIL	UNITS:		OALIDE FO. 47	
HAMALYSI:	dmb	IMATRIX:	SUM	H INTLES	ma/va	SAMPLES: 17	
MAINALIUI.	uilib	HANCE HE HINE	COL	IOINIIO.	mg/ka	IOMINIFICACIO. II	12

SAMPLES:	SW08-143	SW08-144	63000-01	63000-02	63000-03	63001-01	63001-02
	63001-03	63001-04	63003-01	63011-01	63012-01	63012-02	8030234
	63016-01	63017-01	8030269				

QC SAMPLE	МВ	CCV	LCS	MS	MSD	MS-MSD	QC L	MITS
0.00	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	104%	93%	92%	87%	6%	75-125	20
DRO RESULT	< 50	105%	94%	93%	90%	3%	75-125	20

JOHN KELVER, Ph.D, Lab.Dir./QA-QC Mg

DATE

....

KEY:

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

CCV - Continuing Calibration Verification

MB - Method Blank

LCS - Laboratory Control Sample

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative % Difference

REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS		METHOD:	EPA SW	846/6010	MATRIX:	LIQUID
ANALYST:	JA	DATE:	03,20.08	JUNITS:	PPM (mg/l)	NO.SAMPLES:	1
SAMPLES:	63003.01			T		·	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID:	63003.01
IIIVIA I RIA SCIRE & MATRIA SCIRE DUCLICATE ANALTSIS	DATORIU.	03003.01

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	/IITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4.30	86	90	5	91	0	75 - 125	20
Barium	0.00	5	4.35	87	91	5	93	0	75 - 125	20
Cadmium	0.00	5	4.19	84	88	5	96	0	75 - 125	20
Chromium	0.00	5	4.26	85	90	5	93	0	75 - 125	20
Lead	0.00	5	4.28	86	90	5	95	0	75 - 12 5	20
Selenium	0.00	5	4.48	90	95	6	96	0	75 - 125	20
Silver	0.00	5	4.26	85	90	5	96	0	75 - 125	20

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX: LIQUID

ANALYSTS: MN	DATE:	03.17.08	UNITS:	mg/l	NO.SAMPLES:	11

SAMPLES:	63001.01	63001.02	63001.03	63001.04	63003.01	63008.01	63011.01	63012.01
1	63012.02	63013.01 ·	63015.01					

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

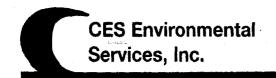
SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METH.	CORR.	QC LI	MITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF.	RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1 1	60 - 120	20

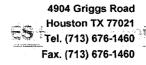
JOHN KELLER, Ph.D Laboratory Director

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Express Laboratories	Page of	Address: 223 M Cov			OVIA	~~; ~		Addre	ess:	23		M	الدري	4	i De				Shipment Sealed?		Samples		
	ESS LABORATORIES, INC. t. / La Porte, Texas 77571-31	City, r		State:	29	Zip:		City:		140	ر.	(<u>- ۲</u>	tate:	// `` >>	02	Zip:		Received on Ice?		Samples		
281) 471-0951 / (Phone: 281-96	0-39	67				Phon Fax:			٠,۲۷ ه	737							Cooler Temp. (°C)	一	Preservat	ive Shown	
-mail: environex	@aol.com	e-Mail:	-1141					PO#:			-17		Quote):					Hold Time OK?			Check OK	
roject Name:	D 1	Sampler Remarks:	² Cntr.		P														Yes No			io AtA	
	onor Kenl		Numbe		1		 							_		_			pH Check OK?			abels Agre	e?
roject Location:	iston Portwall		Volume 3 Prese	rvative	1002	-						-		-		{				A Add	tional An	No alyses	
roject No:										A TC	5	>							1				
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Sampler (Sign):	+ 11		×	9/4	302 TE	1			LES	OLS	8 METALS			1	l	i							
EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	' MATRIX	(C)OMP / (G)PAB	BIEX(802TB)	THATTXTOUS:3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	¥	VOLATILES	SEMI-VOLS	RCHA 8												j
63003.01	" Portwall Dirt	3-13-08			1	7																	
	2)																						
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Relinquished By:	Print Name:	Company:	Date			Tin			ceived	By:	<u> Lu</u>	<u>o G</u>	Print	Name		agu	<u>e</u> (mpany:	S. IS. Dat		Time:	~
Relinquished By:	Print Name:	Company:	Date	:		Tin	10:	Red	ceived	Ву:		·	Print	Name	9;			Cor	mpany:	Dat	(e:	Time:	
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	S:Soil W:Water WW:Waste V	er Type Key	3E:36	aiment	L: Le	acnat	e WI	vvipe							3 F	rese	rva	tive	Kev				
1	P:Plastic G:Glass V:VOA Gla	ss O:Other					1		1:1	ce(<4	'C) 2	:HCL	3:425	04 4	1:HN	O3 5	NaOl	H 6:1	NaOH+Zn Acetate	7:Na2S	203 8: N	one	

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.





Waste Pre-Acceptance/Approval Letter

Date 3/20/2008

. america

Dear Dan Lawson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2666

Expiration Date 3/20/2010

Generator: Magellen Midstream Services

Address: 12901 American Petroleum Road

Galena Park, TX 77547

Waste Information

Name of Waste: Product oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Cleaning of #6 fuel oil tank with diesel

Cleaning of #0 fact off tank with alese

Odor: oil like

pH: neutal

Physical State:

Color: Brown/black

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

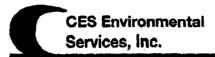
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 123

SECTION 1: Gen	erator Information				•
Company:	Magellen Midstream Services				
Address:	12901 American Petroleum Road				
City, State, Zip:	Galena park, Tx 77547				
Contact:	Dan Lawson		Title:		
Phone No:	713-330-2706		Fax No:	713-330-2784	
24/hr Phone:			•		
U.S. EPA I.D. No:	NA			·	
State I.D.	NA		SIC Code:		
SECTION 2: Billin	ng Information – 🔲 Same as Above			•	
Company:	USES, L.L.C.				
Address:	200 South 16th Street				
City, State, Zip:	LaPorte, TX 77571	·	······································		
Contact:	Anthony Rodriguez	Title:	Manager		·
Phone No:	281-867-4100 Cell: 713-283-4840	Fax No:	281-867-4101	· · · · · · · · · · · · · · · · · · ·	
I mone 140.	281-807-4100 CCn. 713-203-48-40		201 007 4101		***********
200000000000000000000000000000000000000					
SECTION 3: Gene	ral Description of the Waste				
Nome of Wester De	a done Oil			·	
Name of Waste: Pr	n of Process Generating Waste: <u>Cle</u>	aning of #6 five	d oil tank with	diasal	
Detailed Description	it of 1 focess Generating waste. Cit	AITHE OF TO THE	A OH CHIE WILL	<u>diesei</u>	
Physical State:		П	Powder	•	•
i nysicai State:	• •	. =			
	☐ Solid ☐ Filter Ca	ake 🗀	Combination		
~ 1 n m					•
Color: Brown/Black	Odor: <u>oil like</u>				
					•
Specific Gravity (w	ater=1): <u>.90</u> Density	r: <u>8</u> lbs/gal			
Does this material o	ontain any total phenolic compound	ls? 🗌 Yes	⊠ No		
	·	ee	_ -		
Does this material c	ontain any para substituted phenoli	c compounds	Yes 🛛	No the same of the	
Layers:	Single-phase 🖺 Mu	lti-phase			
			•	•	
Container Type:	☐ Drum ☐ Tote	· 🖂	Truck	Other (explain)	a tera.
Container Size:			5000 gal		
Contamor Bizor	·	•	ODOO SE		
- .*	•				
Frequency:	☐ Weekly ☐ Monthl	у 🗍	Quarterly	🛛 Yearly	
Number of Units (co	ontainers): 3-8 Other	:			
Texas State Waste			2 2 20 Tarte - 125 11 12 11 11 11	The Committee of the Co	
表**	Control of the Marketing			engan in a selection of	s skiese i D
Proper U.S. DOT SI	nipping Name: Combusti	ble Liquid, n.o	.s., Combustib	le Liquid, NA1993, PG-III	
Class: Combus	UN/NA: NA1993		PG: III	RQ: NA	
	- William Civiliam Indian		. I. III	NA: NA	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
tible—					Total Control
Liquid					
Littli III	The state of the s				

Flash Point	pН	Reactive Sulfides	Reactive Cyar	nides	Solids
<u>>140</u>	neutral	<u>0</u> mg/l	<u>O</u> mg/l		<u><2</u> %
Oil&Grease	TOC	Zinc	Соррег	Nickel	
<u>>1500</u> mg/l	>1500mg/l	<u>O</u> mg/l	Omg/l	Omg/l	

SECTION 4: Physical and Chemical Data

(CO)VERONDA BENEVARA BE	(Contente tito)	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Fuel Oil	40-60	%	
Diesel Fuel	40-60	%	
Water	0-10	%	
3			

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>CES evaluation Report</u>

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Chu two / 2 Date: 3-20-08

Printed Name/Title: Antonio Rodriguez Operations Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)			
Compliance Officer: Louble Mange			
Date: 3-20-08 (Approved) Rejected	d		
Approval Number: 2666	_		
SECTION 10: Waste Receipt Classification Under 40 CF	R 437		
Is this material a wastewater or wastewater sludge? YES	⊠ NO		
If 'Yes', complete this section.	•		
PLEASE CHECK THE APPROPRIATE BOX. IF NO API	PROPRIATE CATEGORY,	GO TO THE NEXT PAGE.	
Metals Subcategory: Subpart A			
Spent electroplating baths and/or sludges			
Metal finishing rinse water and sludges	•	•	
Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or e			
Air pollution control blow down water and sludges			
Spent anodizing solutions Incineration wastewaters			
Waste liquid mercury	,	•	
Cyanide-containing wastes greater than 136 mg/l			
Waste acids and bases with or without metals		•	
Cleaning, rinsing, and surface preparation solutions from	electroplating or phosphatia	ng operations	
Vibratory deburring wastewater			
Alkaline and acid solutions used to clean metal parts or e	quipment		
Oils Subcategory: Subpart B	- 	• .	
☑ Used oils	•		,
 ✓ Used oils ✓ Oil-water emulsions or mixtures ✓ Lubricants ✓ Coolants ✓ Contaminated groundwater clean-up from petroleum sour 	i i i i i i i i i i i i i i i i i i i		٠.
Lubricants			
Coolants	egger ager		
	rces	· · · · · · · · · · · · · · · · · · ·	1.72
Used petroleum products		1 ### 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3
Oil spill clean-up			
Bilge water			
Rinse/wash waters from petroleum sources	大学人工を記される。		100
Interceptor wastes			. व्यक्ति
Off-specification fuels			
Underground storage remediation waste			
Tank clean-out from petroleum or oily sources			
Non-contact used glycols			, the
Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			-
wastewater from oil dearing paint wasnes			-18¢
Organics Subcategory: Subpart C			120 T
Landfill leachate		en en en en en en en en en en en en en e	
Contaminated groundwater clean-up from non-petroleum	sources		The second
Solvent-bearing wastes	- and the second of the second	· Company of Company o	8:35-958
Off-specification organic product			er se el
Still bottoms			
Byproduct waste glycol	and the second s	To A service (A TO TO TO TO TO TO TO TO TO TO TO TO TO	
Wastewater from paint washes			
Wastewater from adhesives and/or epoxies formulation			enter production in the
Wastewater from organic chemical product operations			
Tank clean-out from organic, non-petroleum sources			STATEMENT
			34
Telegraphic Control of the Control o	A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP		SALES TO SERVICE SERVICES

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils
--

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

図 Oils Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	1.	Base Pricing (including freight):			
		Pay 60% on net oil, Charge 15 cents on net water after	т 15%		· · · · · · · · · · · · · · · · · · ·
		.60 €			
		Trans 700/40 +	FJC		,
		1 / / / / / / / / / / / / / / / / / / /			
	2.	Contamination Limits (maximum limit before surch	harges apply):		·
	•	Water 15%	ar .		
•		·			
	•				
	3.	Surcharge Pricing:	•		
		15 cent per gallon of water after 15%			
	•	,			
		·			
	4.	Special Testing Requirements:		ANTONIO SE SECULIA SE SECULIA SE SECULIA SE SECULIA SECULIA	
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	5.	Treatment and Handling Protocol:	200 (100 (100 (100 (100 (100 (100 (100 (
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		Subcategory A Subcategory B	Subcategory		
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7. Tests for Product Recovered/Recycled (if applicable):

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

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8.	Management	for Product Recover	ed/Recycled (if app	olicable);		
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4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Gary Brauckman

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 03/19/08

From: Miles Root

Lab Memo: 08-041

Subject: **USES Oil Evaluation 0308-71**

A sample of oil from USES at Magellen, Galena Park has been evaluated as an oil receipt. This sample, evaluation 0308-71, represents material from cleaning a #6 fuel with diesel. This material looks good. It has no ash, a flash point greater than 140 deg F, a chlor-d-tect of 200 and only a trace of solids, which were spun out by centrifuge. Density of this sample is 0.905 at ambient temperature, which correlates to an API gravity of 25. This material looks very good for acquisition.



Waste Pre-Acceptance/Approval Letter

Date 3/24/2008

Dear Tracy Carrol

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2667

Expiration Date 3/24/2010

Generator: Trimac DSI Transporters (Baypark Rd.)

Address: 13301 Baypark Rd

Pasadena, TX 77507

Waste Information

Name of Waste: Para-tert-amylphenol

TCEQ Waste Code #: 07035041

Container Type:

Detailed Description of Process Generating Waste:

Removal of heel prior to cleaning RCRA empty containers and tank trailers

Color: varies

Odor: none

pH: na

Physical State:

Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information	•	
Company:	Trimac Transportation		
Address:	13301 Baypark Road		
City, State, Zip:	Pasadena TX 77507		
Contact:	Travis Page	Title:	Washrack Manager
Phone No:	281-474-5674	Fax No:	281-474-5376
24/hr Phone:	832-414-0645		
U.S. EPA I.D. No:	TXR000040410		
State I.D.	86634	SIC Code:	NA
SECTION 2: Billing	Information – 🔀 Same as 🗸	<u>Above</u>	•
Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	
_			
SECTION 3: Gener	al Description of the Waste	•	
Name of Waste: par Detailed Description Physical State:	of Process Generating Wast	te: Removal of heel prior to cleani	ng RCRA empty containers and tank trailers
		lter Cake Combination	Dī
Color: <u>varies</u>	Solid Fi	olter Cake Combination	on .
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Color: varies Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size:	Odor: not ter=1): 1.2 Intain any total phenolic com ontain any para substituted p Single-phase Drum	Oensity: 9 lbs/gal npounds? Yes No Ohenolic compounds? Yes Multi-phase Monthly Quarterly	□ No □ Other (explain)
Color: varies Specific Gravity (was Does this material colors Layers: Container Type: Container Size: Frequency:	Odor: not ter=1): 1.2	Oensity: 9 lbs/gal npounds? Yes No Ohenolic compounds? Yes Multi-phase Monthly Quarterly	No Other (explain) Yearly
Color: varies Specific Gravity (wa Does this material co Does this material co Layers: Container Type: Container Size: Frequency: Number of Units (co Texas State Waste C	Odor: not ter=1): 1:2	Oensity: 9 lbs/gal Inpounds? Yes No Ohenolic compounds? Yes Multi-phase Tote Truck Monthly Quarterly Other:	No Other (explain) Yearly
Color: varies Specific Gravity (was Does this material color Layers: Container Type: Container Size: Frequency: Number of Units (co	Odor: not ter=1): 1:2	Iter Cake Combination Density: 9 lbs/gal Inpounds? Yes No Density: 9 lbs/gal Inpounds? Yes Multi-phase Tote Truck Monthly Quarterly Other:	□ No □ Other (explain) □ Yearly

Flash Point	pН	Reactive Sulfides	Reactive Cy		
NA	NA NA	Omg/l	<u> </u>	100%	_
Oil&Grease	TOC	Zinc	Copper	Nickel	•
<u>0</u> mg/l	NAmg/I	Omg/l	<u>O</u> mg/l	<u>0</u> mg/l	

SECTION 4: Physical and Chemical Data

Ranges are acceptable	or %
100	%
	1
	1
	
	+

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): strong oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	<u>X</u>

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

	Printed Name/Title: Tray's Page	Date: 2/10/05	
		Application of the state of the	
1	CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Perhanting Compliance		
10.0	Date: 3-24-08 Approved Rejected		4.0
" 中 有的	Approval Number:		The Company of the Co

2

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge? YES NO
If'	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
_	Spent anodizing solutions
╛	Incineration wastewaters
_	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
_	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
4	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
j	Underground storage remediation waste
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
Щ	Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
П	Landfill leachate
Ī	Contaminated groundwater clean-up from non-petroleum sources
f	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources

(1)	II the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$80.00/drum \$70.00/hour
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements: NA
5.	Treatment and Handling Protocol:
	Take to non haz Landfill. Avoid actas and oxidizers.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable):
	NA

49-6828 (34)

HAZARD RATINGS

NFPA Special Hazards

Health

PPF

Flammability Reactivity

MATERIAL SAFETY DATA SHEET



1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer/Supplier

Schenectady International, Inc.

P.O. Box 1046

Schenectady, NY 12301 United States

Telephone Numbers - 24 Hour Emergency Assistance

In USA -- CHEMTREC

1-(800)-424-9300

International [Call Collect]

(703)-527-3887]

Telephone Numbers - General Assistance

General

518-887-2400

Trade Name

PARA-TERT-AMYLPHENOL (PTAP)

NAERG#

153

WHMIS Classifications

E, D2B

CAS Number

80-46-6

Chemical Name / Class

PARA-TERTIARY-AMYLPHENOL (CAS # 80-46-6)

Product Use

Chemical intermediate

TSCA Status

The material, or components, is either on the TSCA inventory list or is exempt from the requirement to be listed.

CEPA/DSL Status

on DSL

Trade Secret

This information is not considered to represent confidential business information to SII / SCL

Synonym(s):

p-tert-Pentylphenol

2. HAZARDS IDENTIFICATION

Emergency Overview

Hazard Statements

ANSI signal word for this material is: DANGER

Per SARA 312 regulations this material represents the following health hazard(s): acute chronic

Per SARA 312 regulations this material is classified as a pure material.

General Fire Hazards

High concentration of airborne dust may form explosive mixture with air. Ensure that good housekeeping practices are followed as well as applicable guidelines such as the National Fire Protection Association [NFPA] 654, "Prevention of Fire and Dust Explosions from the Manufacturing., Processing, and Handling of Combustible Particulate Solids". Vapors may be heavier than air and may travel along the ground to some distant source of ignition and flash back.

Appearance

White to yellow solid with a phenolic odor.

Overview

Each person who could potentially be exposed to this material, via any route of entry, while performing their assignments, routine and non-routine; from piping; and/or during an emergency situation, should review this MSDS in order to better understand the hazards associated with the material. To work safely with this material: keep away from heat and ignition sources—do not get in eyes, on skin or clothing—do not breath in material's vapors, dust, or fumes—keep container closed—use with adequate ventilation -- do not enter any confined spaces without first verifying air quality—wash thoroughly after handling

Potential Health Effects

Health Dangers

eye burns skin burns

Health Warnings

lung irritant

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

N/AP = Not Applicable

N/A = Not Available

Printed On 5/20/2005

Health Cautions

may affect mucous membranes may cause gastrointestinal disturbances may cause nervous system effects may cause leucodermia

Environmental Concerns

PARA-tertiary-AMYLPHENOL; Aquatic Toxicity: fathead minnow LC50 = 2.5 mg/l/96h; may bioconcentrate.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS	Weight	Trade	OSHA	Capable of
	Number	Range	Secret	Hazardous	Release
PARA-tertiary-AMYLPHENOL	80-46-6	> 98 %		\checkmark	

4. FIRST AID MEASURES

Skin

Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. If any adverse effects persist, get medical attention. The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: rash to irritation to burns

Eyes

For eye contact, rinse immediately with plenty of water. Seek medical advice. The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: irritation to burns

Inhalation

Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention. The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: irritation -- respiratory tract

Ingestion

If the material is swallowed, get immediate medical attention or advice. Never give anything by mouth to a victim who is unconscious or is having convulsions. If patient has a good gag reflex, you can consider giving several ounces of water for dilution. The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: nausea; vomiting; gastritis

Cardiovascular

The signs and symptoms that may result from an emergency or an unexpected acute overexposure include: arrhythmia

Central Nervous System

Monitor for shock; anticipate seizures and treat accordingly.

5. FIRE FIGHTING MEASURES

Flammable Properties

Substance Name	% LEL	% UEL
PARA-TERT-AMYLPHENOL (PTAP)	NA	NA

Sensitivity to Static Discharge

Material can accumulate static charges from material handling management. Bond and ground as appropriate. For additional recommendations, consult an applicable guideline such as National Fire Protection Association [NFPA] 77, "Recommended Practices on Static Electricity". The Minimum Ignition Energy for some organic solids as a dust may be as low as 3 mJ [millijoules]. The Minimum Explosive Concentration for some organic solids as a dust may be as low as 0.25 oz/ft3 or ~20 mg/m3.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Protection of Firefighters/Specific Hazards Arising from the Chemical

Exclude air; treat like a gasoline or oil fire. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. ACCIDENTAL RELEASE, SPILL, LEAK PROCEDURES

Personal Precautions

Follow facility/company's emergency plans.

Environmental Precautions

Stop the flow of material, if this is without risk. Eliminate sources of ignition. Ventilate the contaminated area. Material will be HOT as a liquid. One may consider allowing the material to cool as part of a response plan. Contain the spill and prevent the material from obtaining access to any confined spaces, public sewers, or waterways.

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

N/AP = Not Applicable

N/A = Not Available

Printed On 5/20/2005

Methods for Clean-Up

Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks. Material will be HOT when in a liquid state. Be sure any absorbents used can withstand the temperature. One may wish to allow it to cool before attempting to collect the material using absorbents, non-sparking tools, explosion-proof vacuums or other equipment required by the size of the release. When material is cool, manage the release as a solid. For example, one can: collect solids, place them into an appropriate container, properly label the container, and then close the container. Immediately arrange for the containers to be placed in an appropriate waste handling area for ultimate transportation or disposal. Thoroughly clean the release area with a suitable agent and collect any cleaning, rinsing media(s) for proper reclamation or disposal. Wear appropriate personal protective equipment during cleanup activities.

Other Information

Wear appropriate protective equipment and clothing during clean-up. Determine appropriate course of action for the collected material. Regulations vary. Consult local authorities before disposal.

Exposure Guidelines

All PPE use is to be determined by a qualified person.

7. HANDLING & STORAGE

Handling Procedures

Guard against dust accumulation of this material. As with all chemicals, good industrial hygiene practices should be followed when handling this material. When the container(s) is empty it may retain product residue including vapors which could accumulate. Therefore, do not cut, drill, grind, or weld empty containers. Additionally, do not conduct such activity(ies) near full, partially full, or empty product containers without appropriate workplace safety authorization(s) or permit(s).

Storage Procedures

Protect container from physical abuse. Keep the container tightly closed. Store in a cool, dry, well-ventilated storage area. Keep separate from incompatibles. Bond and ground containers when transferring material. Empty product containers may contain product residue. Do not reuse empty containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

All PPE use is to be determined by a qualified person.

Engineering Controls

Ventilation should be sufficient to effectively remove, and prevent buildup of, any vapors, dusts, or fumes that may be generated during handling or thermal processing. In order to ensure appropriate electrical safety practices are followed, consult applicable standards. These may include guidelines such as the National Fire Protection Association [NFPA] 70, "The National Electrical Code" and NFPA 499, "Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas ". NOTE: since this material's vapors, dust or fumes can form explosive mixtures in air, ensure that any potential areas where explosions may occur are designed to minimize potential damage. For recommendations to prevent such explosions and associated damage, consult applicable guidelines such as National Fire Protection Association [NFPA] 69, "Standard on Explosion Prevention Systems" and/or NFPA 68, "Guide for Venting Deflagrations".

Personal Protective Equipment

Eye Protection

Wear safety glasses with side shields; chemical goggles (if splashing is possible). Wear a face shield if a splash hazard exists. Select & use eye protection per a competent health & safety professional using: OSHA [29 CFR 1910.133] or Europe's [EN166].

Skin Protection

Use appropriate hand protection. Wear impervious gloves for prolonged contact.

Respiratory Protection

Maintain material's vapors, fumes, or particulate levels below any levels of concern including, for solids, considering the material as a particulate not otherwise classified [nuisance dust] @ 10 mg/m3. Select & use respirators per a competent health & safety professional using: OSHA (29 CFR 1910.134); ANSI (Z88.2-1992); or Europe's [EN 149].

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State		Solid	
Melting Point	(90°C)	194 °F	
Boiling Point	(249 °C)	480 °F	
Flash Point	(121 °C)	250 °F	Tag Closed Cup
Evaporation Rate		< Ether	
Flammability Class		Combustible IIIB	
Vapor Pressure		5 mmHg @ 110°C	
Vapor Density		> Air	
Specific Gravity		0.962	

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

N/AP = Not Applicable

N/A = Not Available

Printed On 5/20/2005

Solubility in Water

0.2 %

.. Octanol/Water Partn

4.03

Molecular Weight Molecular Formula 164.27 C11-H16-O

lbs/Gal

8.0

Other Solubility

Soluble in: benzene; chloroform; ethanol.

10. STABILITY & REACTIVITY

Chemical Stability

Stable under normal conditions [e.g., 70°F (21°C) & 14.7 psig (760 mmHg)].

Conditions to Avoid

Avoid ignition sources where dust is produced.

Incompatible Materials

PARA-tertiary-AMYLPHENOL may react with strong oxidizers.

Hazardous Decomposition Products

Upon decomposition this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons

Possibility of Hazardous Reactions

Will not occur under normal conditions [e.g., 70°F (21°C) & 14.7 psig (760 mmHg)].

11. TOXICOLOGICAL INFORMATION

Routes of Entry

eye contact skin contact inhalation ingestion

Target Organs

skin eyes respiratory system central nervous system

Skin Contact

Dermal LD50s

PARA-tertiary-AMYLPHENOL

80-46-6

Dermal LD50 [rabbit]: 2000 mg/kg

Ingestion

Oral LD50

PARA-tertiary-AMYLPHENOL

80-46-6

Oral LD50 [rat]: 1830 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity

PARA-tertiary-AMYLPHENOL; Aquatic Toxicity: fathead minnow LC50 = 2.5 mg/l/96h; may bioconcentrate.

Persistence and Degradability

RA-tertiary-AMYLPHENOL: Terrestrial Fate: may leach. Aquatic Fate:volatilizes slowly [half-lives: river ~23 days; lake ~173 days]. Atmospheric Fate: photochemically degrades [half-life ~9 hours].

Mobility

The product is essentially insoluble in water.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions

Manage wastes to satisfy local, state & federal regulations.

14. TRANSPORT INFORMATION

Comments

NOTE: This section's data are provided as a guide to the overall classification of the product. However, transportation classifications may be subject to change as, for example, with changes in package size. Consult shipper requirements under IMO, ICAO (IATA), TDG and 49 CFR to assure regulatory compliance. Additionally, please contact the Transportation & Regulatory Affairs Specialist with SII/SCL @ (518)-370-4200 if there are questions regarding the cleaning of containers, or vessels. Remember that the reuse, treatment, or disposal, of any related residuals or wastes must be in accordance with all federal, state, and local environmental regulations.

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

N/AP = Not Applicable

N/A = Not Available

Printed On 5/20/2005

SURFACE TRANSPORTATION (HIGHWAY/RAIL)

BULK-- TANK TRUCK/TANK

CAR

Shipping Name

Hot Alkylphenols, solid, n.o.s.

Hazard Class **Identification Number**

UN2430

Packing Group

PG III

DRUM(s)/BAG(s)

Shipping Name

Alkylphenols, solid, n.o.s.

Hazard Class Identification Number **Packing Group**

UN2430 PG III

INTERMEDIATE BULK

CONTAINER **Shipping Name**

Alkylphenols, solid, n.o.s.

Hazard Class Identification Number

UN2430

Packing Group

PG III

PAIL(s)/CAN(s)

Shipping Name

Alkylphenols, solid, n.o.s

Hazard Class **Identification Number Packing Group**

UN2430

PG III

8

IMDG CODE (WATER)

BULK-- TANK TRUCK/TANK

Shipping Name

HOT ALKYLPHENOLS, SOLID, N.O.S. (para-tert-amylphenol)

Hazard Class Identification Number class 8 UN2430

Packing Group

PG III

DRUM(s)/BAG(s)

Shipping Name

ALKYLPHENOLS, SOLID, N.O.S. (para-tert-amylphenol)

Hazard Class Identification Number Packing Group

UN2430 PG III

INTERMEDIATE BULK

CONTAINER

Shipping Name

ALKYLPHENOLS, SOLID, N.O.S. (para-tert-amylphenol)

Hazard Class class 8 **Identification Number** UN2430 Packing Group PG III

PAIL(s)/CAN(s)

Shipping Name

ALKYLPHENOLS, SOLID, N.O.S. (para-tert-amylphenol)

Hazard Class class 8 **Identification Number** UN2430 **Packing Group** PG III

ICAO/IATA (AIR)

PAIL(s)/CAN(s)

Shipping Name

Alkylphenols, solid, n.o.s.

N/AP = Not Applicable

Hazard Class **Identification Number**

8 UN2430 Ш

Packing Group

15. REGULATORY INFORMATION

Superfund Amendments & Reauthorization Act of 1986

This material may be applicable to the SARA regulations. Thus, it may require you to file appropriate governmental reports if the total amount of this material, or any of the listed constituents, in your possession ever exceeds the regulations' threshold values.

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

N/A = Not Available

Printed On 5/20/2005

International Regulations

Canada - WHMIS: Ingredient Disclosure

PARA-tertiary-AMYLPHENOL

80-46-6

1%; English Item 1246; French Item 1353

Inventory - European Inventory of Existing Commercial Chemical Substances

PARA-tertiary-AMYLPHENOL

80-46-6

201-280-9; C11H16O

Inventory - Japan - Existing and New Chemical Substances (ENCS)

PARA-tertiary-AMYLPHENOL

80-46-6

3-503

WHMIS Ratings

E, D2B

European Classifications

This substance is considered hazardous per The Safety Data Sheets Directive (91/155/EC) as amended

EU Risk Phrases

R34

Causes burns.

R43

May cause sensitization by skin contact.

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EU Safety Phrases

S24

Avoid contact with skin.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27

Take off immediately all contaminated clothing.

\$36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

EU Symbol(s)





C - Corrosive

N - Dangerous for the environment

16. OTHER INFORMATION

Disclaimer

The health and safety information is that available to SII/SCL as of the date published and SII/SCL makes no representation of the information's completeness or accuracy. Any data provided is based on either: reference sources, testing performed on a representative sample(s), or professional judgement. The physical data should not be construed as either representing specifications or a guaranteed

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains information required by Controlled Products Regulation. SII/SCL provides its MSDS in several languages using English as the primary language. While SII/SCL uses reasonable efforts to provide accurate translations, SII/SCL assumes no liability, or responsibility, for errors, omissions or ambiguities in any translations. SII/SCL expects those persons who receive this MSDS to exercise their independent professional judgement, or consult with a competent health/safety professional, to determine how to utilize this material safely. This includes, but is not exclusive to, the material's appropriateness for a specific use, the type of personal protection equipment necessary, and the use of engineering controls. In no event is SII/SCL liable for any damages whatsoever arising out of your use of this material based upon information obtained from this MSDS including: direct, indirect, incidental, consequential or punitive claims or damages.

Completed On

5/20/2005

Replaces Sheet Dated

5/20/2005

Completed By

HGW

MSDS Sections Updated:

Transport Information: US DOT Details

Trade Name PARA-TERT-AMYLPHENOL (PTAP)

MSDS ANSI2

Short #

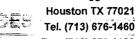
N/AP = Not Applicable

N/A = Not Available

Printed On 5/20/2005

72 8-4-07 LAD T-35





4904 Griggs Road

Waste Pre-Acceptance/Approval Letter

Date 3/26/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2668

Expiration Date 3/26/2010

Generator: Hydrochem La Porte at Linde

Address:

5757A Underwood

Pasadena, TX 77507

Waste Information

Name of Waste: Cooling tower sludge

TCEQ Waste Code #: CESQ6092

Container Type:

vac box

Detailed Description of Process Generating Waste:

Solids from hydroblasting a cooling tower

Color: dark

Odor: none

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.





DC

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information						
Company:	Hydrochem La Porte	@ Linde					
Address:	5757A Underwood						
City, State, Zip:	Pasadena, TX 7750	7					
Contact:	Curtis Baker			Title:	Account	Manger - Hydrochem	
Phone No:	281-470-0411			Fax No:	281-470	-0653	
24/hr Phone:	291-779-3141			_			
U.S. EPA I.D. No:	TXCESQG			_			
State I.D.	CESQG			SIC Code:	NA		
	_	-					
	g Information - Sa			•			
Company:	Hydrochem Industrial	Services Inc					
Address:	602 South 16 th Street						
City, State, Zip:	La Porte, TX 77571						
Contact:	Curtis Baker		Title:	Account Man			
Phone No:	(281) 470-0411		Fax No:	(281) 470-06:	53		
SECTION 3: General Description of the Waste Name of Waste: Cooling tower sludge Detailed Description of Process Generating Waste: solids from hydroblasting a cooling tower							
Physical State:	☐ Liquid ⊠ Solid	✓ Sludge ☐ Filter Cal	ke [Powder Combinatio	n		
Color: dark	Od	or: none					
Specific Gravity (wa	z). (NG- 84 Ibs/gal				
Does this material c	ontain any total pheno	lic compounds	? 🗌 Yes	⊠ No			
Does this material c	ontain any para substi	tuted phenolic	compound	s? 🗌 Yes 🛛	⊠ No		
Layers:	Single-phase	☐ Mult	ti-phase				
Container Type: Container Size:	□ Drum ——	Tote		Truck		Other (explain) vacuum box	
Frequency: Number of Units (co Texas State Waste (· -	Monthly Other:	_	Quarterly		Yearly	
Proper U.S. DOT Si	nipping Name:	Non RCRA	Non DOT	Regulated Mat	terial		
Class: NA	UN/NA:	NA		PG: NA	<u> </u>	RQ: NA	

	Flash Point	pHI	Reactive Sulfides	Reactive (Cyanides	Solids
	>150	NA	lAmg/l	NAmg/I	Alternative management action with the second	100%
	Oil&Grease ==	TOC	Zinc	Copper	Nickel Nickel	
l	<1000mg/l	NAmg/l	NAmg/l	NAmg/I	NAmg/l	

				emical	

- Salar Arterior Salar S						
	COMPONENTS TABLE	Concentration	Units			
The second of the second	The waste consists of the following materials	Ranges are acceptable	- or %	vert and en ee.		
Silt, sand		100	%			
water		trace				
V	and the second s					
	3. <u>3. 3.</u> 3.9 4.0					
i a si si si		77 At 20				
֡	Silt, sand water	COMPONENTS TABLE The waste consists of the following materials Silt, sand water	COMPONENTS TABLE The waste consists of the following materials Silt, sand water Concentration Ranges are acceptable 100 trace	COMPONENTS TABLE The waste consists of the following materials Silt, sand Water Concentration Ranges are acceptable or % trace		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical #T104704239-07-TX

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics,	listed below.	, WAS NOT PERFORMED	based upon the following
generator knowledge:			

TCLP Metals:	
TCLP Volatiles:	
TCLP Semi-Volatiles:	
Reactivity:	X
Corrosivity:	X
Ignitability:	$\overline{\mathbf{x}}$

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

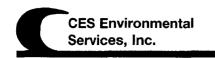
Authorized Signature:	Date: <u>(3-1408</u>
Printed Name/Title: Shiloh Jereb	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lublinkly &	
Date: 3-26-08 Approved Rejected	
Approval Number: 2668	

<u>s</u>	SECTION 10: Waste Receipt Classification Under 40 CFR 437
I	s this material a wastewater or wastewater sludge? YES NO
I	f 'Yes', complete this section.
I	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Me</u>	tals Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
— <u>Oil</u> :	s Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Org</u>	anics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	II the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.					
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.					
	Chron Coppe	um: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L					
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.					
		Metals Subcategory					
		Oils Subcategory					
		Organics Subcategory					

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$75.00/yard
	\$250.00/load
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
i	
_	
3.	Surcharge Pricing:
	NA
,	
4.	Special Testing Requirements:
·	
5.	Treatment and Handling Protocol:
	REDIRECT Class 2-land fill
	CLAS CHANNELL
L	
6.	Treated Wastewater Discharge Subcategory:
ſ	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
İ	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

_

5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A

Collected By: Client Date Received: 03/17/08 Time Received: 11:10am

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080

CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

Site/Location: Bayport CO2 Facilities

CHEMTEX					
<u>#</u>	Sample Identification	Parameter	Units	Results	MDL
P8030519	Cooling Tower Sludge	Total Metals Scan			
	-	Total Aluminum	mg/kg	335	2.5
		Total Antimony	mg/kg	< 2.5	2.5
		Total Arsenic	mg/kg	200	2.5
		Total Barium	mg/kg	147	2.5
		Total Beryllium	mg/kg	< 2.5	2.5
		Total Cadmium	mg/kg	2.8	2.5
		Total Chromium	mg/kg	830	2.5
		Total Cobalt	mg/kg	4.3	2.5
		Total Copper	mg/kg	375	2.5
		Total Iron	mg/kg	2,315	2.5
		Total Lead	mg/kg	11.2	2.5
		Total Manganese	mg/kg	88.4	2.5
		Total Molybdenum	mg/kg	6.4	2.5
		Total Nickel	mg/kg	16.2	2.5
		Total Selenium	mg/kg	< 2.5	2.5
		Total Silver	mg/kg	< 2.5	2.5
	•	Total Thallium	mg/kg	< 2.5	2.5
		Total Vanadium	mg/kg	4.8	2.5
		Total Zinc	mg/kg	487	2.5
		Total Calcium		85,658	2.5
		Total Magnesium	mg/kg	2,377	2.5
		Total Potassium	mg/kg	317	2.5
		Total Sodium	mg/kg	805	2.5
		Moisture Content	wt %	93	0.01
		Total Solids	wt %	7.05	0.01
		Organic Content	wt %	1.77	0.01
		Loss on Ignition	wt %	3.13	0.01
		ASH	wt %	3.92	0.01
		PH	pH units	8.37	

MDL: Method Detection Limit

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHEMTEX. CHEMTEX, however, makes no warranty or representation, express or implied, of any type, and expressely disclaims same. This report shall not be reproduced, in whole or in part, without the written approval of CHEMTEX.

5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A Collected By: Client Date Received: 03/17/08

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080

Time Received: 11:10am
CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS Site/Location: Bayport CO₂ Facilities

CHIMITIN					
<u>#</u>	Sample Identification	<u>Parameter</u>	Units	Results	MDL
P8030519	Cooling Tower Sludge	Benzene	mg/kg	< 0.025	0.025
		Toluene	mg/kg	< 0.025	0.025
		Ethylbenzene	mg/kg	< 0.025	0.025
		Xylenes-Total	mg/kg	< 0.025	0.025
		T P H C ₆ -C ₁₂	mg/kg	< 50	
		T P H >C12-C28	mg/kg	< 50	
		T P H >C28-C35	mg/kg	< 50	
		T P H C ₆ -C ₃₅	mg/kg	< 50	50
Method Blank	Ottawa Sand	T P H C6-C35	mg/kg	< 50	50
		Benzene	mg/kg	< 0.025	0.025
		Toluene	mg/kg	< 0.025	0.025
		Ethylbenzene	mg/kg	< 0.025	0.025
		Xylenes-Total	mg/kg	< 0.025	0.025

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE (LCS) RECOVERY

<u>Parameter</u>	Units	<u> True Value</u>	Obtained value	Recovery (%)	Limits(%)
TPH	mg/l	2000	2309	115	80-120

SPIKE RECOVERY (%)

Parameter	Matrix Spike	Matrix Spike Duplicate	Laboratory Control Sample	<u>Limits</u>
Benzene	102	102	118	39-150
Toluene	101	101	117	39-150
Ethylbenzene	100	101	116	39-150
Xylenes-Total	100	101	115	39-150

SURROGATE RECOVERY (%)

CHEMTEX #	Sample Identification	4-Bromofluorobenzene
P8020003	08-0007-PAC Box # 26390	111
Method Blank		110
Matrix Spike		109
Matrix Spike Duplicate		109
Laboratory Control Sample		109

 Parameter
 Method Reference
 Date Analyzed/Analyst

 Total Petroleum
 TNRCC Method 1005 (Rev.03)
 03/18/08 TRS/ARMR

Hydrocarbons (TPH)

EPA Method 8021B 03/17/08 TRS/ARMR

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Page 2 of 13

5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08
Sample Matrix: Sludge
Date Collected: 03/12/08
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Date Received: 03/17/08
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CHEMTEX ETLE # . P8030519

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080 CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

$\frac{\textit{Site/Location: Bayport CO}_2 \; \textit{Facilities}}{\textit{SAMPLE}} \; \frac{\textit{SAMPLE DENTIFICATION: Cooling Tower Sludge}}{\textit{CHEMTEX} \; \#: \; \frac{\textit{P8030519}}{\textit{P8030519}}}$

CAS #	COMPOUND NAME	<u>Units</u>	Results	MDL	EPA METHOD
67-64-1	Acetone	mg/l	< 0.125	0.125	8260B
107-05-1	Allyl chloride	mg/l	< 0.125	0.125	8260B
71-43-2	Benzene	mg/l	< 0.005	0.005	8260B
108-86-1	Bromobenzene	mg/l	< 0.025	0.025	8260B
74-97-5	Bromochloromethane	mg/l	< 0.025	0.025	8260B
75-27-4	Bromodichloromethane	mg/l	< 0.025	0.025	8260B
75 - 25-2	Bromoform	mg/l	< 0.025	0.025	8260B
78-93 - 3	2-Butanone	mg/l	< 0.125	0.125	8260B
104-51-8	n-Butylbenzene	mg/l	< 0.025	0.025	8260B
74-83-9	Bromomethane	mg/l	< 0.025	0.025	8260B
135-98-8	sec-Butylbenzene	mg/l	< 0.025	0.025	8260B
98-06-6	tert-Butylbenzene	mg/l	< 0.025	0.025	8260B
75-15-0	Carbon disulfide	mg/l	< 0.025	0.025	8260B
56-23-5	Carbon tetrachloride	mg/l	< 0.025	0.025	8260B
108-90-7	Chlorobenzene	mg/l	< 0.025	0.025	8260B
75-00-3	Chloroethane	mg/l	< 0.025	0.025	8260B
74-87-3	Chloromethane	mg/l	< 0.025	0.025	8260B
67-66 - 3	Chloroform	mg/1	< 0.025	0.025	8260B
95-49-8	2-Chlorotoluene	mg/l	< 0.025	0.025	8260B
106-43-4	4-Chlorotoluene	mg/l	< 0.025	0.025	8260B
110-75-8	2-Chloroethylvinyl ether	mg/l	< 0.125	0.125	8260B
124-48-1	Dibromochloromethane	mg/l	< 0.025	0.025	8260B
96-12-8	1,2-Dibromo-3-chloropropane	mg/l	< 0.025	0.025	8260B
74-95-3	Dibromomethane	mg/l	< 0.025	0.025	8260B
106-93-4	1,2-Dibromethane	mg/l	< 0.025	0.025	8260B
95-50-1	1,2-Dichlorobenzene	mg/l	< 0.025	0.025	8260B
541-73-1	1,3-Dichlorobenzene	mg/l	< 0.025	0.025	8260B
106-46-7	1,4-Dichlorobenzene	mg/l	< 0.025	0.025	8260B
110-57-6	trans-1,4-Dichloro-2-butene	mg/l	< 0.025	0.025	8260B

MDL: Method Detection Limit.

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5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A Collected By: Client Date Received: 03/17/08 Time Received: 11:10am

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080 CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

$\frac{\textit{Site/Location: Bayport CO}_2 \; \textit{Facilities}}{\textit{SAMPLE}} \; \frac{\textit{DENTIFICATION: }}{\textit{CHEMTEX}} \; \frac{\textit{Cooling Tower Sludge}}{\textit{P8030519}}$

CAS #	COMPOUND NAME	<u>Units</u>	<u>Results</u>	MDL	EPA METHOD
75-71-8	Dichlorodifluoromethane	mg/l	< 0.025	0.025	8260B
75-34-3	1,1-Dichloroethane	mg/l	< 0.025	0.025	8260B
107-06-2	1,2-Dichloroethane	mg/l	< 0.025	0.025	8260B
75-35-4	1,1-Dichloroethene	mg/l	< 0.025	0.025	8260B
156-59-2	cis-1,2-Dichloroethene	mg/l	< 0.025	0.025	8260B
156-60-5	trans-1,2-Dichloroethene	mg/l	< 0.025	0.025	8260B
78-87-5	1,2-Dichloropropane	mg/l	< 0.025	0.025	8260B
142-28-9	1,3-Dichloropropane	mg/l	< 0.025	0.025	8260B
563-58-6	1,1-Dichloropropene	mg/l	< 0.025	0.025	8260B
10061-01-5	cis-1,3-Dichloropropene	mg/l	< 0.025	0.025	8260B
10061-02-6	trans-1,3-Dichloropropene	mg/l	< 0.025	0.025	8260B
100-41-4	Ethylbenzene	mg/l	< 0.025	0.025	8260B
87-68-3	Hexachloro-1,3-butadiene	mg/l	< 0.025	0.025	8260B
110-54-3	Hexane	mg/l	< 0.025	0.025	8260B
74-88-4	Idomethane	mg/l	< 0.025	0.025	8260B
98-82-8	Isopropylbenzene	mg/l	< 0.025	0.025	8260B
99-87-6	4-Isopropyltoluene	mg/l	< 0.025	0.025	8260B
75-09-2	Methylene chloride	mg/l	< 0.025	0.025	8260B
91-20-3	Napthalene	mg/l	< 0.025	0.025	8260B
103-65-1	n-Propylbenzene	mg/l	< 0.025	0.025	8260B
100-42-5	Styrene	mg/l	< 0.025	0.025	8260B
630-20-6	1,1,1,2-Tetrachloroethane	mg/l	< 0.025	0.025	8260B
79-34-5	1,1,2,2-Tetrachloroethane	mg/l	< 0.025	0.025	8260B
127-18-4	Tetrachloroethene	mg/l	< 0.025	0.025	8260B
108-88-3	Toluene	mg/l	< 0.025	0.025	8260B
87-61-6	1,2,3-Trichlorobenzene	mg/l	< 0.025	0.025	8260B
120-82-1	1,2,4-Trichlorobenzene	mg/l	< 0.025	0.025	8260B
71-55-6	1,1,1-Trichloroethane	mg/l	< 0.025	0.025	8260B

MDL: Method Detection Limit.

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5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A Collected By: Client Date Received: 03/17/08

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080

Time Received: 11:10am
CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

Site/Location: Bayport CO₂ Facilities SAMPLE IDENTIFICATION: Cooling Tower Sludge CHEMTEX #: P8030519

CAS #	COMPOUND NAME	<u>Units</u>	Results	MDL	EPA METHOD
79-00-5	1,1,2-Trichloroethane	mg/l	< 0.025	0.025	8260B
79-01-6	Trichloroethene	mg/l	< 0.025	0.025	8260B
96-18-4	1,2,3-Trichloropropane	mg/l	< 0.025	0.025	8260B
95-63-6	1,2,4-Trimethylbenzene	mg/l	< 0.025	0.025	8260B
108-67-8	1,3,5-Trimethylbenzene	mg/l	< 0.025	0.025	8260B
1330-20-7	Xylenes-total	mg/l	< 0.025	0.025	8260B
75-69-4	Trichlorofluoromethane	mg/l	< 0.025	0.025	8260B
75-01-4	Vinyl chloride	mg/l	< 0.125	0.125	8260B

MDL: Method Detection Limit.

Parameter Volatiles Date Analyzed/Analysts 03/18/08 KBR/PPS

5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A Collected By: Client Date Received: 03/17/08 Time Received: 11:10am CHEMTEX FILE #: P8030519

Attn: Mr. Shiloh K. Jereb (shiloh jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

Site/Location: Bayport CO2 Facilities SAMPLE IDENTIFICATION: Cooling Tower Sludge CHEMTEX #: P8030519

CAS #	COMPOUND NAME	Units	Results	MDL	EPA METHOD
ACID COMPO	UNDS				
(15:30) 59-50-7	4 Ohlana 2 mathal mhamal	m m / 1	< 0.100	0 100	00000
	4-Chloro-3-methyl phenol	mg/l		0.100	8270C
95-57-8	2-Chlorophenol	mg/l	< 0.100	0.100	8270C
120-83-2	2,4-Dichlorophenol	mg/l	< 0.100	0.100	8270C
105-67-9	2,4-Dimethylphenol	mg/l	< 0.100	0.100	8270C
51-28-5	2,4-Dinitrophenol	mg/l	< 0.500	0.500	8270C
534-52-1	2-Methyl-4,6-dinitrophenol	mg/l	< 0.500	0.500	8270C
88-75-5	2-Nitrophenol	mg/l	< 0.200	0.200	8270C
100-02-7	4-Nitrophenol	mg/l	< 0.500	0.500	8270C
87-86-5	Pentachlorophenol	mg/l	< 0.500	0.500	8270C
108-95-2	Phenol	mg/l	< 0.100	0.100	8270C
88-06-2	2,4,6-Trichlorophenol	mg/l	< 0.100	0.100	8270C
BASE/NEUTR					
83-32-9	Acenaphthene	mg/l	< 0.100	0.100	8270C
208-96-8	Acenaphthylene	mg/l	< 0.100	0.100	8270C
120-12 7	Anthracene	mg/l	< 0.100	0.100	8270C
92-87-5	Benzidine	mg/l	< 0.500	0.500	8270C
56-55-3	Benzo(a)anthracene	mg/l	< 0.100	0.100	8270C
205-99-2	Benzo(b)fluoranthene	mg/l	< 0.100	0.100	8270C
207-08-9	Benzo(k)fluoranthene	mg/l	< 0.100	0.100	8270C
50-32~8	Benzo(a)pyrene	mg/l	< 0.100	0.100	8270C
191-24-2	Benzo(ghi)perylene	mg/l	< 0.200	0.200	8270C
85-68-7	Benzyl butyl phthalate	mg/l	< 0.100	0.100	8270C
111-44-4	Bis(2-chloroethyl)ether	mg/l	< 0.100	0.100	8270C
111-91-1	Bis(2-chloroethoxy)methane	mg/l	< 0.100	0.100	8270C
117-81-7	Bis(2-ethylhexyl)phthalate	mg/l	< 0.100	0.100	8270C
108-60-1	Bis(2-chloroisopropyl)ether	mg/l	< 0.100	0.100	8270C
101-55-3	Bromophenyl-4 phenyl ether	mg/l	< 0.100	0.100	8270C
91-58-7	2-Chloronaphthalene	mg/l	< 0.100	0.100	8270C
7005-72-3	4-Chlorophenyl Phenyl Ether	mg/l	< 0.100	0.100	8270C
218-01-9	Chrysene	mg/l	< 0.100	0.100	8270C
	-				

MDL: Method Detection Limit.

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5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08
Sample Matrix: Sludge
Date Collected: 03/12/08
Time Collected: N/A
Collected By: Client
Date Received: 03/17/08
Time Received: 11:10am

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com) Tim

Phone: 1-281-474-5211; Fax: 1-281-474-5080

CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

Site/Location: Bayport CO₂ Facilities SAMPLE | IDENTIFICATION: | Cooling Tower Sludge | CHEMTEX #: P8030519

CAS #	COMPOUND NAME	Units	Results	MDL	EPA METHOD
BASE/NEUTRA					
53-70-3	Dibenzo(a,h)anthracene	mg/l	< 0.200	0.200	8270C
84-74-2	Di-n-butyl phthalate	mg/l	< 0.100	0.100	8270C
95-50-1	1,2-Dichlorobenzene	mg/l	< 0.100	0.100	8270C
541-73-1	1,3-Dichlorobenzene	mg/l	< 0.100	0.100	8270C
106-46-7	1,4-Dichlorobenzene	mg/l	< 0.100	0.100	8270C
91-94-1	3,3-Dichlorobenzidine	mg/l	< 0.500	0.500	8270C
84-66-2	Diethyl phthalate	mg/l	< 0.100	0.100	8270C
131-11-3	Dimethyl phthalate	mg/l	< 0.100	0.100	8270C
121-14-2	2,4-Dinitrotoluene	mg/l	< 0.100	0.100	8270C
606-20-2	2,6-Dinitrotoluene	mg/l	< 0.100	0.100	8270C
117-84-0	Di-n-octyl phthalate	mg/l	< 0.100	0.100	8270C
122-66-7	1,2-Diphenylhydrazine	mg/l	< 0.100	0.100	8270C
206-44-0	Fluoranthene	mg/l	< 0.200	0.200	8270C
86-73-7	Fluorene	mg/l	< 0.100	0.100	8270C
118-74-1	Hexachlorobenzene	mg/l	< 0.100	0.100	8270C
87-68-3	Hexachlorobutadiene	mg/l	< 0.100	0.100	8270C
77-47-4	Hexachlorocyclopentadiene	mg/l	< 0.100	0.100	8270C
67-72-1	Hexachloroethane	mg/l	< 0.200	0.200	8270C
193-39-5	Indeno(1,2,3-cd)pyrene	mg/l	< 0.200	0.200	8270C
78-59-1	Isophorone	mg/l	< 0.100	0.100	8270C
91-20-3	Naphthalene	mg/l	< 0.100	0.100	8270C
98-95 - 3	Nitrobenzene	mg/l	< 0.100	0.100	8270C
62-75-9	N-Nitrosodimethylamine	mg/l	< 0.500	0.500	8270C
621-64-7	N-Nitrosodi-n-propylamine	mg/l	< 0.200	0.200	8270C
86-30-6	N-Nitrosodiphenylamine	mg/l	< 0.200	0.200 .	8270C
85-01-8	Phenanthrene	mg/l	< 0.100	0.100	8270C
129-00-0	Pyrene	mg/l	< 0.100	0.100	8270C
120-82-1	1,2,4-Trichlorobenzene	mg/l	< 0.100	0.100	8270C
MDL: Method	Detection Limit				

MDL: Method Detection Limit

Parameter Semi-Volatiles Date Analyzed/Analysts 03/18/08 KBR/PPS

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5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08
Sample Matrix: Sludge
Date Collected: 03/12/08
Time Collected: N/A
Collected By: Client
Date Received: 03/17/08
Time Received: 11:10am
CHEMTEX FILE #: P8030519

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS Site/Location: Bayport CO₂ Facilities SAMPLE IDENTIFICATION: Cooling Tower Sludge CHEMTEX #: P8030519

CAS #	COMPOUND NAME	Units	Results	\mathtt{MDL}	EPA METHOD				
Total Pesti	Total Pesticides								
309-00-2	Aldrin	mg/l	< 0.0003	0.0003	8080				
319-84-6	alpha-BHC	mg/l	< 0.0003	0.0003	8080				
319-85-7	beta-BHC	mg/l	< 0.0003	0.0003	8080				
58-89-9	gamma-BHC	mg/l	< 0.0003	0.0003	8080				
319-86-8	delta-BHC	mg/l	< 0.0003	0.0003	8080				
5103-71-9	Chlordane	mg/l	< 0.0003	0.0003	8080				
72-55-9	4,4'-DDT	mg/l	< 0.0003	0.0003	8080				
72-54-8	4,4'-DDE	mg/l	< 0.0003	0.0003	8080				
50-29-3	4,4'-DDD	mg/l	< 0.0003	0.0003	8080				
60-57-1	Dieldrin	mg/l	< 0.0003	0.0003	8080				
959-98-8	alpha-endosulfan	mg/l	< 0.0003	0.0003	8080				
33213 - 65-9	beta-endosulfan	mg/l	< 0.0003	0.0003	8080				
1031-07-8	Endosulfan sulfate	mg/l	< 0.0003	0.0003	8080				
72-20-8	Endrin	mg/l	< 0.0003	0.0003	8080				
7421-93-4	Endrin aldehyde	mg/l	< 0.0003	0.0003	8080				
76-44-8	Heptachlor	mg/l	< 0.0003	0.0003	8080				
1024-57-3	Heptachlor epoxide	mg/l	< 0.0003	0.0003	8080				
12674-11-2	PCB-1016	mg/l	< 0.001	0.001	8082				
11104-28-2	PCB-1221	mg/l	< 0.001	0.001	8082				
1141-16-5	PCB-1232	mg/l	< 0.001	0.001	8082				
53469-21-9	PCB-1242	mg/l	< 0.001	0.001	8082				
12672-29-6	PCB-1248	mg/l	< 0.001	0.001	8082				
11097-69-1	PCB-1254	mg/l	< 0.001	0.001	8082				
11096-82-5	PCB-1260	mg/l	< 0.001	0.001	8082				
8001-35-2	Toxaphene	mg/l	< 0.03	0.03	8080				
Herbicides									
94-75-7	2,4-D	mg/l	< 0.001	0.001	615				
94-82-6	2,4-DB	mg/l	< 0.001	0.001	615				
93-72-1	2,4,5-TP (Silvex)	mg/l	< 0.001	0.001	615				
93-76 - 5	2,4,5-T	mg/l	< 0.001	0.001	615				
75-99-0	Dalapon	mg/l	< 0.001	0.001	615				
1918-00-9	Dicamba	mg/l	< 0.001	0.001	615				
120-36-5	Dichloroprop	mg/l	< 0.001	0.001	615				
88-85-7	Dinoseb	mg/l	< 0.001	0.001	615				
94-74-6	MCPA	mg/l	< 0.001	0.001	615				
93-65-2	MCPP	mg/l	< 0.001	0.001	615				
100-02-1	4-Nitrophenol	mg/l	< 0.001	0.001	615				
87-86-5	Pentachlorophenol	mg/l	< 0.001	0.001	615				

MDL: Method Detection Limit.

 Parameter
 Date Analyzed/Analysts

 Pesticides
 03/18/08 KBR/PPS

 Herbicides
 03/18/08 KBR/PPS

Herbicides
03/18/08 KBR/PPS
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5757 A. Underwood Road Pasadena, TX 77507

Report Date: 03/21/08 Sample Matrix: Sludge Date Collected: 03/12/08 Time Collected: N/A Collected By: Client Date Received: 03/17/08

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)
Phone: 1-281-474-5211; Fax: 1-281-474-5080

Time Received: 11:10am
CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

RESULTS OF ANALYSIS

Site/Location: Bayport CO₂ Facilities

SAMPLE IDENTIFICATION: Cooling Tower Sludge
CHEMTEX #: P8030519

TOXICITY CHARACTERISTICS LEACHING PROCEDURE CONSTITUENTS

EPA HW#	CAS # C	onstituents	U	nits	Results	MDL	RMCCL	EPA Method
TCLP	Metals		_	·				
	7440-36-0	Antimony	mg/l	<	0.05	0.05	1*	1311/6010B
D004	7440-38-2	Arsenic	mg/l		0.24	0.05	5	1311/6010B
D005	7440-39-3	Barium	mg/l		0.77	0.20	100	1311/6010B
	7440-41-7	Beryllium	mg/l	<	0.05	0.05	0.08*	1311/6010B
D006	7440-43-9	Cadmium	mg/l	<	0.05	0.05	1	1311/6010B
D007	7440-47-3	Chromium	mg/l		0.48	0.05	5	1311/6010B
D008	7439-92-1	Lead	${\tt mg/l}$	<	0.05	0.05	5	1311/6010B
D009	7439-97-6	Mercury	mg/l	<	0.02	0.02	0.2	1311/7470A
	7440-02-0	Nickel	mg/1		0.06	0.05	70*	1311/6010B
D010	7782-49-2	Selenium	mg/l	<	0.05	0.05	1	1311/6010B
D011	7440-22-4	Silver	mg/l	<	0.05	0.05	5	1311/6010B

RMCCL: Regulatory Maximum Concentration of Contaminants in the TCLP Leachate.

MDL: Method Detection Limit.

 $[\]star$ Maximum Leachable Concentration of constituents of Concern of Texas Commission on Environmental Quality (TCEQ).

5757 A. Underwood Road Pasadena, TX 77507

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080 CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

Report Date: 03/21/08

RESULTS OF ANALYSIS

Site/Location: Bayport CO₂ Facilities

SAMPLE IDENTIFICATION: Cooling Tower Sludge

CHEMTEX #: P8030519

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

LABORATORY CONTROL MATRIX SPIKE RECOVERY

EPA			
HW#	CAS #	Constituents	(%) Recovery
TCLP Me	tals:		
	7440-36-0	Antimony	86
D004	7440-38-2	Arsenic	108
D005	7439-39-3	Barium	90
	7440-41-7	Beryllium	100
D006	7440-43-9	Cadmium	103
D007	7440-47-3	Chromium	104
D008	7439-92-1	Lead	103
D009	7439-97-6	Mercury	106
	7440-02-0	Nickel	104
D010	7782-49-2	Selenium	102
D011	7440-22-4	Silver	96

Parameter
TCLP Metals

Date Analyzed/Analysts
03/21/08 KSR/NR

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AIHA Laboratory # 101478

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Report Date: 03/21/08

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

	LABORATORY	CONTROL SAMPLE (LCS	S) RECOVERY	
Parameter	Units	True Value	Obtained Value	% Recovery
Total Metals Scan				
Total Aluminum	mg/l	2.000	1.936	97
Total Antimony	mg/l	0.500	0.475	95
Total Arsenic	mg/l	0.500	0.472	94
Total Barium	mg/l	2.000	2.017	101
Total Beryllium	mg/l	0.050	0.062	104
Total Cadmium	mg/l	0.0250	0.247	99
Total Chromium	mg/l	0.200	0.206	103
Total Cobalt	mg/l	0.500	0.520	104
Total Copper	mg/l	0.0250	0.234	94
Total Iron	mg/l	1.000	1.061	105
Total Lead	mg/l	0.500	0.490	98
Total Manganese	mg/l	0.500	0.514	103
Total Molybdenum	mg/l	0.500	0.524	105
Total Nickel	mg/l	0.500	0.523	105
Total Selenium	mg/l	0.500	0.490	96
Total Silver	mg/l	0.0250	0.260	101
Total Thallium	mg/l	0.500	0.524	105
Total Vanadium	mg/l	0.500	0.522	104
Total Zinc	mg/l	0.500	0.494	99
Total Calcium	mg/l	5.000	4.563	97
Total Magnesium	mg/l	5.000	5.129	103
Total Potassium	mg/l	5.000	5.122	102
Total Sodium	mg/l	5.000	5.298	106

PERCENT RECOVERY OF SURROGATES

COMPOUND NAME Volatiles CHEMTEX #: P8030519	* RECOVERY	LIMITS
	0.0	76 774
1,2-Dichloroethane-d4	98	76-114
Toluene-d ₈	98	83-120
4-Bromofluorobenzene	97	80-120
Semi-Volatiles		
CHEMTEX #: S8030519		
2-Fluorophenol	52	21-130
Phenol-d ₅	52	10-130
Nitrobenzene-d₅	58	35-130
2-Fluorobiphenyl	53	43-130
2,4,6-Tribromophenol	54	10-130
Terphenyl-d ₁₄	59	33-130
Pesticides		
CHEMTEX #: P8030519	44	
Method Blank	56	
Laboratory Control Sample	6 6	

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AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

Report Date: 03/21/08

LABORATORY CONTROL SAMPLE RECOVERY (%)

COMPOUND NAME	<pre>% RECOVERY</pre>
Volatiles:	0.0
Benzene	88
Chlorobenzene	105
1,1-Dichloroethylene	97
Trichloroethylene	96
Toluene	88
Semi-Volatiles	
Phenol	67
2-Chlorophenol	58
1,4-Dichlorobenzene	77
N-Nitrosodi-n-propylamine	60
1,2,4-Trichlorobenzene	57
4-Chloro-3-methylphenol	59
Acenaphthene	69
4-Nitrophenol	59
2,4-Dinitrotoluene	67
Pyrene	67
Pesticides	
Gamma-BHC	80
Heptachlor	70
Endrin	38
Methoxychlor	65

5757 A. Underwood Road Pasadena, TX 77507

Attn: Mr. Shiloh K. Jereb (shiloh.jereb@boc.com)

Phone: 1-281-474-5211; Fax: 1-281-474-5080 CHEMTEX FILE #: P8030519

AIHA Laboratory # 101478

nelap certificate # T104704239-07-TX

Report Date: 03/21/08

Parameter	Method Reference	Date Analyzed/Analyst
Total Metals Scan		
Total Aluminum	EPA Method 6010B	03/17/08 KSR/NR
Total Antimony	EPA Method 6010B	03/17/08 KSR/NR
Total Arsenic	EPA Method 6010B	03/17/08 KSR/NR
Total Barium	EPA Method 6010B	03/17/08 KSR/NR
Total Beryllium	EPA Method 6010B	03/17/08 KSR/NR
Total Cadmium	EPA Method 6010B	03/17/08 KSR/NR
Total Chromium	EPA Method 6010B	03/17/08 KSR/NR
Total Cobalt	EPA Method 6010B	03/17/08 KSR/NR
Total Copper	EPA Method 6010B	03/17/08 KSR/NR
Total Iron	EPA Method 6010B	03/17/08 KSR/NR
Total Lead	EPA Method 6010B	03/17/08 KSR/NR
Total Manganese	EPA Method 6010B	03/17/08 KSR/NR
Total Molybdenum	EPA Method 6010B	03/17/08 KSR/NR
Total Nickel	EPA Method 6010B	03/17/08 KSR/NR
Total Selenium	EPA Method 6010B	03/17/08 KSR/NR
Total Silver	EPA Method 6010B	03/17/08 KSR/NR
Total Thallium	EPA Method 6010B	03/17/08 KSR/NR
Total Vanadium	EPA Method 6010B	03/17/08 KSR/NR
Total Zinc	EPA Method 6010B	03/17/08 KSR/NR
Total Calcium	EPA Method 6010B	03/17/08 KSR/NR
Total Magnesium	EPA Method 6010B	03/17/08 KSR/NR
Total Potassium	EPA Method 6010B	03/17/08 KSR/NR
Total Sodium	EPA Method 6010B	03/17/08 KSR/NR
Moisture Content	Methods of Solid Analysis, Part I	03/18/08 PSL
Total Solids	Methods of Solid Analysis, Part I	03/18/08 PSL
Volatile Solids	Methods of Solid Analysis, Part I	03/18/08 PSL
Loss on Ignition	Methods of Solid Analysis Part I	03/18/08 PSL
ASH	Methods of Solid Analysis Part I	03/18/08 PSL
рн	EPA Method 9040C	03/18/08 PSL

Dr. C. N. Reddy, Ph.D., CIH, ASP
Director

kv*]/CNR

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\mathbf{C}	<u> </u>	\mathbf{M}'	(E)	<u></u>
Environ	mental &	Industria)	Hygiene Serv	ices

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

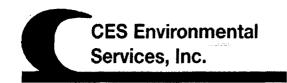
3082 25th Street, Port Arthur, TX 77642

Phone #: (409) 983-4575; Fax #: (409) 982-1522

e-mail: chemtexpa@sbcglobal.net

CHENT: Linde Gases		5757A U Pasaden	Jnder 1a, TX	wood Ros 77507	ed				Phone Fax #: Cell: E-mail:	281- shilo	474-508 ·745-85′ h.jcreb@	30 72 <u>Dboc.co</u>				
BILLING CONTACT/ADDRESS: (if different		P. O. #	f:		ECT NO:	NO: PROJECT: Cooling Tower cleaning			SITE/LOCATION Bayport CO ₂ Facility							
SAMPLE(S) COLLECTED BY (PRINT NA	ME):			Expo		naround Tin										}
Shiloh Jereb		2-4 hr Rush			1-2 days			lays			NEOI		** + **	sian		1
		24 hr Rush_	Sample Matrix	Code: 1	3-5 days			14 days_			KEQ	UESTE	U ANA	ALYSE	<u>s</u>	
SAMPLE SAMPLE	COLLE		Orinking Water Commodwater Liquid Waster Cills) Paint Chips Sand Sludge Soil/Solid	Sh	Composite/ Grab	Preservative		Sample Containers	5	Full Spectrum Analysis						
# IDENTIFICATION	Date	Time	Soud Waste Trip Blank Water Wipes Wastewater	S SW TR W WY WY			No.	Size (oz)	Type (Glass/ Plastic)							
Cooling Tower Sludge	03/12/08		SI				2	32	P	Х						
		The Printer Sales					}		}					}		{ }
																
Special Remarks: Samples must be preserved on ice after sample collection and transported in ice chest.																
Witness (Signature, Date & Time):	5				03	/13/08	140	00								Ì
Relinquished By Shildh Jereb		Date/Time: 03/13/08	140	00		eceived By:						Date/T				
Relittu shed By	:	Date/Time:	:		R	eceived By:						Date/T	ime:			

Hanson Pipe and Mecat 2650



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/12/2008

Dear Kevin White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2650

Expiration Date 3/12/2010

Generator: Hanson Pipe & Precast

Address: 11201 FM 529

Houston, TX 77041

Waste Information

Name of Waste: Non-haz solids (oil absorbent pads)

TCEQ Waste Code #: CESQ3101

Container Type:

Detailed Description of Process Generating Waste:

General clean up and disposal of outdated product

Color: brown

Odor: hydrocarbon

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

MP or

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 4B

SECTION 1: General	ator Information	son Pipe at	Proset		
Company: Address:	11501 EW 539	SON I HILL OF	r cces		
City, State, Zip:	Houston Dr.	77 041			
Contact:	114		Citle:	Pres Lie	
Phone No:	713-466-6324		Fax No:	713-416-3503	
24/hr Phone:	117-161-0324	· · · · · · · · · · · · · · · · · · ·	rax IVO.	115-714-5305	
U.S. EPA I.D. No:	Tr Ces Q				
State I.D.	CESQ		SIC Code:	NA	
State HD1	CF-W	`		JU 71	**************
SECTION 2: Billing	Information - Same as A	hove	1		
Company:	Intermetation Same as 72	S. J. S	-mironito	R	
Address:	223 Meany Dr.		- 1 0 (0 0) (0 0		-
City, State, Zip:	Hou. Tr. 270		· · · · · · · · · · · · · · · · · · ·	**************************************	
Contact:	New White	Title:	Sales		
Phone No:	281-960-3967	Fax No:		**************************************	
SECTION 3: Genera	al Description of the Waste			•	
BECTTOIL S. Genera	t t	1	~	al of outdartal proo	
Name of Waste:	lon Haz solids	Coil - absorber	* puls)	٠ ا	
Detailed Description	of Process Generating Waste	: General Cles		I of a deduted Drag	het
	· · · · · · · · · · · · · · · · · · ·		A A	0, 00,00	,
Physical State:	☐ Liquid 🔯 Slu	dge	Powder		
•		=	Combination		
٨			Compiliation		
Color: Brun	Odor	ty chocaloun			
Color: 12/00-4	Out				
Specific Gravity (wat		ensity: <u>MA</u> lbs/gal			
Specific Gravity (wai	et=1): [4] 1.	ensity: white los/gai			
			71		
Does this material co	ntain any total phenolic comp	pounds? 🔲 Yes 🛭 🗜	xT∕v0		
D (T.)					
Does this material co	ntain any para substituted pl	nenoue compounds?	LI Yes BUNG	1	
. Т актама	Single-phase	Multi whose			
· Layers:	Z/Single-phase	Multi-phase			
	M ~ ¬	. —			
Container Type:		ote 📙	Truck	Other (explain)	
Container Size:	<u>-22</u> ξγ				
Frequency:	☐ Weekly ☐ M	lonthly 💌	Quarterly	☐ Yearly	
Number of Units (co		Other:	Quarter,		
	•	Other.			
Texas State Waste C	<u> </u>	3101			
Proper U.S. DOT Shi	ipping Name:	1 -1 - Carp il day 10	AT Resula	al MATCRIAL	
Class: UA	UN/NA:	- MUNICIPALITY	PG:	RQ: NA	
1-10-	_~_	1	V 1/-		

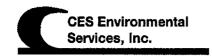
Flash Point	PH Newtry 1	Reactive Sulfides mg/l	Reactive Cya	nides	Solids	Į.
	TOC -Aff) mg/l 7		Copper	Nickel		
SECTION 4: Physi	ical and Chamical	Doto				
	COMPONE	NTS TABLE		Soncentratio		Units
The	Soci Str	the following materials	Rang	ges are accep	otable	or %
	glood	A pads				50
						<u>.l.</u>
SECTION 5: Safet If the handling of the standard	•	the use of special protective	equipment, please	explain.		
SECTION 6: Attac	hed Supporting I	<u>Documents</u>				
List all documents, からりら	notes, data, and/o	or analysis attached to this fo	orm as part of the w	aste approvi	al packa	ge.
SECTION 7: Incom	npatibilities					
Please list all incom	patibilities (if any	·):				
SECTION 8: Gene	rator's Knowledg	e Documentation				
Laboratory analysi generator knowledg		s waste characteristics, listed	below, WAS NOT	PERFORM	ED base	ed upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatil Reactivity: Corrosivity: Ignitability:	es:					
SECTION 9: Gene	rator's Certificat	lon MSDS				
attached description omissions of compo	is complete and a sition properties ex	sed on generator knowled accurate to the best of my k xist and that all known or sus a described by this document.	nowledge and abilit	y to determi	ne that i	no deliberate or willf
Authorized Signatu	re: <i>PV (W</i>	a for them Pfe)		Date: 🐠	3-2	-0 f
Printed Name/Title	: Phil the	eceasti (for for	· Hara-Pipa			
CES USE ONLY (DO N Compliance Officer:	\circ	~ 1				
Date: $3-12-c$						
Approval Number: _	2650					

SEC	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is th	nis material a wastewater or wastewater sludge? YES NO
If "	Yes', complete this section.
PLI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Metal.</u>	s <u>Subcategory</u> : Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Organ	ilcs Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

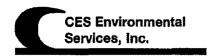
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Ales January +trains +fSC
	\
_	
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Class I Bulk or Recyclable Pads
	Class 1 Back of 1000 1000
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	ole):		
roduct Recovered/Recycled (if	applicable);		
	- World drubbacour		
-	Product Recovered/Recycled (if	Product Recovered/Recycled (if applicable);	Product Recovered/Recycled (if applicable);

MATERIAL SAFETY DATA SHEET

SPEC STRIP PLUS

1. COMPANY IDENTIFICATION

Manufacturer: SpecChem

444-B Richmond Ave.
Kansas City, KS 66101
Phone (866) 791-8700

24 Hour Emergency Contact: CHEMTREC (800) 424-9300

2 COMPOSITION INFORMATION

TO CANAL CANAL WIN AVAILABLE	MAAAAA	F	•	
Component .	CAS#	Profession (Profession	% by weight	
the state of the s	7460 V		•	1.1.4
Naphthenic Distillate Mixture	N/A	क्क जाना ^न .	> 95%	N. 1.

3. HAZARDS IDENTIFICATION

į	Component	Exposure Limit	Skin	Form
ŀ			17	
1	Light naphthenic distiliate	5 mg/m ³ OSHA PEL	No	Aerosoi
·		5 mg/m3 ACGIH TLV	No	Aerosol

NFPA CLASSIFICATION (0=Least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Health 0, Fire 1, Reactivity 0

HAZARD DESCRIPTION: None

SYMPTOMS OF OVEREXPOSURE: Headache, nausea, respiratory irritation, skin irritation, drowsiness.

4. FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with water for 15 minutes or until irritation subsides.

Obtain medical attention if irritation persists.

SKIN CONTACT: Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical attention if irritation persists. Discard contaminated leather articles such as shoes and belt.

INHALATION: Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove victim to fresh air. Give artificial respiration if not breathing. Obtain medical attention if breathing problems persist.

INGESTION: If ingested, DO NOT induce vomiting and DO NOT give liquids. Immediately obtain medical attention. Should a small amount accidentally enter mouth, rinse with water until taste is gone.

5. Fire fighting measures

Flash Point: >200°F (PMCC)
Autoignition Temperature: >300°C (est.)

Flammability Limits in air: Lower flammable limit 0.8%

Upper flammable limit 7.0%

MATERIAL SAFETY DATA SHEET

SPEC STRIP PLUS

EXTINGUISHING MEDIA: Foam, water spray (fog), dry chemical, carbon dioxide, and vaporizing liquid type extinguishing agents.

EXTINGUISHING MEDIA TO AVOID: No information available.

SPECIAL FIREFIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse vapors and provide protection for personnel attempting to stop the leak. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapor, smoke, or decomposition products. Use supplied air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS: Carbon monoxide, sulfur oxides, aldehydes, and others in the case of incomplete combustion.

"EMPTY" CONTAINER WARNING: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death.

Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to OSHA, ANSI Z 49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

6: ACCIDENTAL RELEASE MEASURES

LARGE SPILLS: Evacuate the hazard area of improtected personnel. Dike and contain with suitable absorbent. Shut off source of leak only if it is safe to do so. Do not allow to enter sewers or open waterways. Advise authorities if product has entered sewers, waterways, or extensive land areas.

SMALL SPILLS: Extinguish all possible sources of ignition. Take up with absorbent materials such as sand or sawdust and place in non-leaking containers. Dispose of in accordance with all Federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING: For industrial use only. Avoid skin and eye contact. Minimize breathing vapor or mist. Respiratory protection is required when ventilation is inadequate. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of a work period. Product is readily removed from skin by waterless hand cleaners following by washing thoroughly with soap and water.

STORAGE: Store in a cool, dry location and in accordance with good industrial practices. Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidizers.

MATERIAL SAFETY DATA SHEET

SPEC STRIP PLUS

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use local exhaust to capture vapor or mists if necessary. Provide ventilation sufficient to prevent exceeding OSHA PELs.

RESPIRATORY PROTECTION: Normally not needed at ambient temperatures. Use OSHA/NIOSH approved supplied-air respiratory protection in confined or enclosed spaces, where mist is present or may be generated, or in event of fire.

SKIN PROTECTION: Use chemical resistant gloves, boots, apron, and other impervious clothing to prevent prolonged or repeated skin contact. Nitrile boots recommended. EYE PROTECTION: Use splash goggles or face shield when eye contact may occur.

PERSONAL HYGIENE: Remove contaminated clothing and launder or dry clean before reuse. Dispard contaminated leather articles such as shoes and belt.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light to amber liquid

ODOR: Characteristic oil BOILING POINT: 249°C (est.)

VAPOR PRESSURE: Less than 0.01 mm Hg 20°C

SPECIFIC GRAVITY: 0.89

VAPOR DENSITY: Greater than 5.0

EVAPORATION RATE @ STP (n-butyl acetate=1): Less than 0.01

POUR POINT: -45°C

VISCOSITY: .55 \$\$U @ 100°F .

SOLUBILITY IN WATER: Less than 0.1%

10. STABILITY AND REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur.

Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite. Do not store with or allow contact with acids.

11. TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE: Tests on similar materials show a low order of acute oral and dermal toxicity. As a precaution, exposure to liquids, vapor, mists, or fumes should be minimized.

EYE EFFECTS: Minimal irritation on contact.

SKIN EFFECTS: May cause mild irritation with prolonged and repeated exposure.

ORAL EFFECTS: Tests on similar materials indicate a low order of acute oral toxicity.

INHALATION EFFECTS: Low acute toxicity expected on inhalation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: Information may be available, contact Spec Chem.

ECOTOXICITY: Information may be available, contact Spec Chem.

FURTHER INFORMATION: None.

MATERIAL SAFETY DATA SHEET

SPEC STRIP PLUS

13. DISPOSAL CONSIDERATIONS

When disposed of properly, this product does not meet RCRA classification or listing for hazardous waste. Dispose in accordance with all applicable Federal, state, provincial, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

14. TRANSPORT INFORMATION

DOT SHIPPING LABEL: Not regulated by the U.S. DOT

HAZARD CLASS: Not applicable

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents (DOT P 5800.3).

15. REGULATORY INFORMATION

FEDERAL NATIONAL

This product is not hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

SUPERFUND AMENDMENTS AND REAUTHORIAZATION ACT OF 1986 (SARA) TITLE
III (Emergency Planning and Community Right to Know Act) SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements.

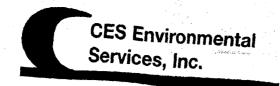
16. OTHER INFORMATION

Prepared by: Thomas F. Stalnaker

The information and recommendations contained herein were obtained from sources we believe to be accurate and reliable as of the date revised. However, SpecChem does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

NA - Not Available

2651 Oxbow Carbon 2651



Road 494 TX 77021 13) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/12/2018

Dear Kevin White

Thank you for choosing CES Environmental tream has been approved at our facility in anchor recycling needs. The following whot conform to the profile, then rejection or additional charges may apply

CES Profile # 2651

Experation Date 3/12/2010

Generator: Oxbow Carbon & Minerals
Address: 1 Industrial Rd, Dock #45

Texas City, TX 77590

Waste Information

Name of Waste: Oily debris
TCEQ Waste Code #: CESQ3081

Container Type:

Detailed Description of Process Generating Waste:

Empty oil containers, bottles, grease tubes, etc.

Color: various

Odor: hydracarbon

na: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

	U.S. EPA I	D No: TXD00895046	1 ISWR No: 30	900
SECTION 1: General Company: Address: City, State, Zip:	ator Information Oxb One Finluston TX: City T	on Corbon 3 / id pl. Dock # x. 77590	Minerals 45	
Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No:	Charl Perk 409-948-011	in	Title: Fax No:	Environdel 1445
State I.D.	CZSQ Information – [M. Same		SIC Code:	
Company: Address: City, State, Zip: Contact:		17029 Title:	Suls	
Phone No: SECTION 3: General	281-960-3967	Fax No:	7(3-255-1	76 /
Name of Waste: Detailed Description	hy declass of Process Generating V	Vaste: Eyy oil	containers, b	offles, greate thus etc.
Physical State:	Liquid Solid	Sludge	Powder Combination	
Color: \(\lambda \lambda \lambda \lambda \lambda \rangle \) Specific Gravity (wat	Α.			
Layers:	Single-phase	Multi-phase		
Container Type: Container Size:	Drum .	Tote	Truck	Other (explain)
Frequency: Number of Units (cor Texas State Waste Co	,	Monthly Other: CSSQ - 30	Quarterly [Yearly
Proper U.S. DOT Shi	UN/NA:	Non Rea N/A	PG: NA	RQ: N/A
Flash Point 7200 Oil&Grease	WA NA	Zine	Reactive Cyanides mg/l ppper	Solids 95-1070 % Nickel
1500 / Simple > 1500	_NAmg/ >1500	U/A mg/I N	mg/l	Mg/l

COMPONENTS TABLE	Concentration	Unit
The waste consists of the following materials	Ranges are acceptable	or %
verious debris		95
ຄປ		56

SECTION 5; Safety Related Data	
If the handling of this waste requires the use of special protective e	equipment, please explain.
SECTION 6: Attached Supporting Documents	
List all documents, notes, data, and/or analysis attached to this for	rm as part of the waste approval package.
- None	
SECTION 7: Incompatibilities	
Please list all incompatibilities (if any):	
- oxidizus	
SECTION 8: Generator's Knowledge Documentation	
Laboratory analysis of the hazardous waste characteristics, listed ligenerator knowledge: TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	below, WAS NOT PERFORMED based upon the following
SECTION 9: Generator's Certification	
The information contained herein is based on generator knowledge attached description is complete and accurate to the best of my known omissions of composition properties exist and that all known or susp tested are representative of all materials described by this document.	nowledge and ability to determine that no deliberate or willful pected hazards have been disclosed. I certify that the material
Authorized Signature: 100 - for cheel Selvy Printed Name/Title: Cheel Selvy Orbow	0 - 6 um Date: 2-25-48
Printed Name/Title: Cheel Hekits Ochw	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Q. A. 1	Additional Information:
Date: 3-12-08 (Approved) Rejected _	
Approval Number: 265	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge?

YES



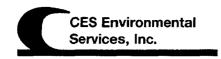
EXT PAGE.

If '	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NE
<u>Meta</u>	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

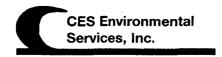
(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



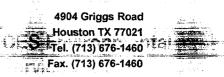
1.	Base Pricing (including freight):
	PUS Arumt trans + Foc
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Class I Bulk
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



Tests for Product R	ecovered/Recycled (if applicable):	
Management for Pi	oduct Recovered/Recycled (if applicable);	

Delta chemical 2652 2652





pH: neutral

Waste Pre-Acceptance/Approval Letter

Date 3/13/2008

Dear Tommy Boyette

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2652

Expiration Date 3/13/2010

Generator: Delta Chemical **Address:** 334 Tidal Road

Deer Park, TX 77536

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily run-off from oil packaging

Color: clear water layer, brow Odor: hydrocarbon

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900



DECITOTIVE COM	erator Information							
Company:	Delta Chemical Se	rvices						
Address:	334 Tidal Rd							
City, State, Zip:	Deer Park, TX 775	536						
Contact:	Tim Menard			Title:	SAGL	Heaith	Environmental	
Phone No:	(281) 680-4113	(Cell - 713-8	1931)2	Fax No:	281.479			
24/hr Phone:		Ce11-713-1						
U.S. EPA I.D. No:	TXR000029199							
State I.D.	85855			SIC Code:	NA			
State I.D.				Sic code.				
CECTION 2. Dilli	ng Information – 🔀 :	Sama as Ahar						
	Qelta Petroleum	Same as Abov	<u>e</u>					
Company:	10352 River Boad					· · · · · · · · · · · · · · · · · · ·		
Address:							·	
City, State, Zip:	St. Rose, LA 70087							
Contact:	I'm Messarel		Title:					
Phone No:	JY3-81.		_ Fax No:	<u> </u>			·	
SECTION 3: Gene	eral Description of th	e Waste						
Name of Waste: O	ily Water							
Detailed Description	n of Process Generat	ing Waste: O	ily Run-off fron	oil packaging	<u> </u>			
_								
Physical State:	🛛 Liquid	☐ Sludge		Powder				
•	_	☐ Filter (Combination	n.			
	☐ Solid	Filter (Combination	n			
Colom Clean system	☐ Solid	<u> </u>	Cake 🗌	Combination	n			
Color: Clear water	☐ Solid	Filter (Cake 🗌	Combination	n			
	Solid	Odor: <u>hydroca</u>	Cake	Combination	n			
Color: Clear water Specific Gravity (w	Solid	Odor: <u>hydroca</u>	Cake 🗌	Combination	n			
	Solid	Odor: <u>hydroca</u>	Cake	Combination	n			
Specific Gravity (w	Solid Sayer/ Brown Oil Sater=1): .85-1	Odor: <u>hydroca</u> Densi	Cake	Combination	n			
Specific Gravity (w	Solid	Odor: <u>hydroca</u> Densi	Cake		n			
Specific Gravity (w	Solid Sayer/ Brown Oil Sater=1): .85-1	Odor: hydroca Densi	rbon ty: 7.5-8 lbs/gal	⊠ No	n ☑ No			
Specific Gravity (w	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe	Odor: hydroca Densi	rbon ty: 7.5-8 lbs/gal	⊠ No				
Specific Gravity (we Does this material Does this material	Solid ayer/ Brown Oil vater=1): .85-1 contain any total phe	Odor: hydroca Densi nolic compour stituted pheno	rbon ty: 7.5-8 lbs/gal	⊠ No				
Specific Gravity (w	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe	Odor: hydroca Densi nolic compour stituted pheno	rbon ty: 7.5-8 lbs/gal nds? Yes Plic compounds	⊠ No				
Specific Gravity (we Does this material Does this material Layers:	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe contain any para sub Single-phase	Densi	rbon ty: 7.5-8 lbs/gal nds? Yes lic compounds	⊠ No ? □ Yes □		Other ((evnlain)	
Specific Gravity (we Does this material Does this material Layers:	Solid ayer/ Brown Oil vater=1): .85-1 contain any total phe	Odor: hydroca Densi nolic compour stituted pheno	rbon ty: 7.5-8 lbs/gal nds? Yes Plic compounds	⊠ No ? □ Yes ☑ Truck		Other ((explain)	
Specific Gravity (we Does this material Does this material Layers:	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe contain any para sub Single-phase	Densi	rbon ty: 7.5-8 lbs/gal nds? Yes lic compounds	⊠ No ? □ Yes □		Other ((explain)	
Specific Gravity (we Does this material Does this material Layers:	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe contain any para sub Single-phase	Densi	rbon ty: 7.5-8 lbs/gal nds? Yes lic compounds	⊠ No ? □ Yes ☑ Truck		Other ((explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size:	Solid Sayer/ Brown Oil Sater=1): .85-1 contain any total phe contain any para sub Single-phase Drum ———	Densional Densional Densional Compounts Stituted phenomena Month Month Densional Densi	Cake rbon ty: 7.5-8 lbs/gal nds? Yes lic compounds Iulti-phase	⊠ No ? □ Yes ☑ Truck 5000 gal			(explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size: Frequency:	Solid ayer/ Brown Oil vater=1): .85-1 contain any total phe contain any para sub Single-phase Drum —	Densional Densio	Cake rbon ty: 7.5-8 lbs/gal nds? Yes clic compounds fulti-phase	⊠ No ? □ Yes ☑ Truck		Other ((explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size: Frequency: Number of Units (e	Solid Sayer/ Brown Oil Sater=1): .85-1 Contain any total phe Contain any para sub Single-phase Drum Weekly Containers): 1	Densional Densio	Cake rbon ty: 7.5-8 lbs/gal nds? Yes clic compounds fulti-phase	⊠ No ? □ Yes ☑ Truck 5000 gal			(explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size: Frequency:	Solid Sayer/ Brown Oil Sater=1): .85-1 Contain any total phe Contain any para sub Single-phase Drum Weekly Containers): 1	Densional Densio	Cake rbon ty: 7.5-8 lbs/gal nds? Yes clic compounds fulti-phase	⊠ No ? □ Yes ☑ Truck 5000 gal			(explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size: Frequency: Number of Units (container State Waster)	Solid ayer/ Brown Oil vater=1): .85-1 contain any total phe contain any para sub Single-phase Drum Weekly containers): 1 Code No: Re	Densional Densio	Cake	☑ No ? ☐ Yes ☑ Truck 5000 gal Quarterly	☑ No		(explain)	
Specific Gravity (we Does this material Does this material Layers: Container Type: Container Size: Frequency: Number of Units (e	Solid ayer/ Brown Oil vater=1): .85-1 contain any total phe contain any para sub Single-phase Drum Weekly containers): 1 Code No: Re	Densional Densional Densional Compounts Stituted phenomena Month Other secycle	Cake rbon ty: 7.5-8 lbs/gal nds? Yes clic compounds fulti-phase	☑ No ? ☐ Yes ☑ Truck 5000 gal Quarterly	☑ No	Yearly	(explain)	

Flash Point	р Н	Reactive Sulfides	Reactive Cya	anides	Solids
<u>>150</u>	<u>neutral</u>	<u>0 mg/l</u>	<u>0</u> mg/l		<u><2</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>O</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Oil	5-40	%
Water	55-95	%
dirt/debris	0-5	%
		<u> </u>

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>CES Analysis</u>

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>x</u>
Ignitability:	<u>X</u>

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

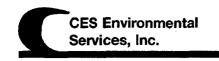
Authorized Signature: 12m Marchall Marchall	Date: 3-12-08
Printed Name/Title: I'm Menard	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Date: 3-13-08 Approved Rejected	
Approval Number: 2652	

S	ECTION 10: Waste Receipt Classification Under 40 CFR 437
I	s this material a wastewater or wastewater sludge? YES NO
I	f 'Yes', complete this section.
F	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Me</u>	tals Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oil</u>	s Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Or</u>	ganics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

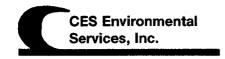
(1)	If the v	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
4 - A - A - A - A - A - A - A - A - A -	0.16/gal + trans +fsc up to 5% solids the ge \$0.01/gal/% more than 5% solids the ge \$0.01/gal/%
<i>2/</i>	Contamination Limits (maximum limit before surcharges apply):
/ [Chlor-D-Tect
3.	Surcharge Pricing:
	If this is an enulsian and has to be heated in the oil system an additional 8.02/gallon is regulared.
4.	Special Testing Requirements:
	Check pot, % solids, % nater, . Row On the water phase run p H, Toc, and phenols
5.	Treatment and Handling Protocol:
	Separate of Enwiter & Separate of Schorse as normal Drun viscosity index (2) If meets base of speco, sand to base of BI find, sand Treated Wastewater Discharge Subcategory: Discharge Subcategory:
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



Tests for Product R	lecovered/Recycled (if applicable)	<u>k</u>	
		The Walk of the Control of the Contr	
Management for Pr	oduct Recovered/Recycled (if ap	plicable);	
Management for Pr	roduct Recovered/Recycled (if ap	plicable);	
Management for Pr	oduct Recovered/Recycled (if ap	plicable);	 · · · · · · · · · · · · · · · · · · ·
Management for Pr	oduct Recovered/Recycled (if ap	plicable);	
Management for Pr	roduct Recovered/Recycled (if ap	plicable);	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Date: 03/11/08

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

From: Miles Root Lab Memo: 08-032

Subject: Delta Chemical - Railpit Evaluation 0308-32

A sample of oil from Delta Chemical – Railpit, has been evaluated as a potential oil source for CES. This sample appears to be a wet oil with a flash point > 140 deg F and a chlor-d-tect of 500. Solids by centrifuge show only a trace of a fine silt material. There is no separate water phase in this sample. I boiled a portion to see how it looks with less water, and it clears up nicely. It can be heated to boil off the water and then go into our base oil sales. This oil source looks good for acquisition and it should present no issues.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Date: 03/11/08

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

From: Miles Root Lab Memo: 08-032

Subject: <u>Delta Chemical – Railpit Evaluation 0308-32</u>

A sample of oil from Delta Chemical – Railpit, has been evaluated as a potential oil source for CES. This sample appears to be a wet oil with a flash point > 140 deg F and a chlor-d-tect of 500. Solids by centrifuge show only a trace of a fine silt material. There is no separate water phase in this sample. I boiled a portion to see how it looks with less water, and it clears up nicely. It can be heated to boil off the water and then go into our base oil sales. This oil source looks good for acquisition and it should present no issues.

Waste Pre-Acceptance/Approval Letter

Date 3/13/2008

Dear Tommy Boyette

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2652

Expiration Date 3/13/2010

Generator: Delta Chemical Address: 334 Tidal Road

Deer Park, TX 77536

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily run-off from oil packaging

Color: clear water layer, brow Odor: hydrocarbon pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General			•				
Company:	Delta Chemical Service	3					
Address:	334 Tidal Rd						
City, State, Zip:	Deer Park, TX 77536						
Contact:		Acosta	Title:		alth & Environmental		
Phone No:	(281) 680-4113/713-815			281.479.98	342		
24/hr Phone:	713.676.1460/713-819	3172 (coll)- 381-960-	0701	,			
U.S. EPA I.D. No:	TXR000029199				•		
State I.D.	85855		_ SIC Code:	5169			
SECTION 2: Billing	Information – 🛛 Same	as Above					
Company:							
Address:							
City, State, Zip:			***************************************	<u></u>			
Contact:		Title:		- 77.1			
Phone No:		Fax No:					
I HOHE IVO.							
SECTION 3: Genera	al Description of the Wa	ste - '.	system as	hosten	•		
	en John Water	Fue	system an	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		
Name of Waste: Oils							
		/ Vaste: Oil Additives a	nd Lubricants run	off from di	rum packaging plant at railcar and		
truck loading/unloadir		with live w	vates and	<i>,</i> .			
Muon toaumey annouali		min fire	vaces and	Rain 4	ats (99%)		
Physical State:	☐ Liquid ☐	Sludge	Powder	~			
Sign 105 2	=						
in AAN in in the State of Mills (1997). In ∰in the the the State of State	_ Solid _	Filter Cake	_ Combination	1			
Administra	/m 011 01						
Color: Clear water lay	<u>/er/ Brown Oil</u> Odor:	hydrocarbon					
40.02			:				
Specific Gravity (wat	ter=1): <u>.85-1</u>	Density: <u>7.5-8</u> lbs/g	gal				
,			-				
Does this material co	ntain any total phenolic	compounds? L Yes	⊠ No				
Does this material co	ntain any para substitut	ed phenolic compoun	ds? ☐ Yes 🗵	No	•		
About the Distance over the	v ₁ (1−3) (1 • · · ·		· ·				
Layers:	Single-phase	Multi-phase					
		_	_	-			
Container Type:	☐ Drum ☐	Tote 🔀	Truck		Other (explain)		
Container Size:			5000 gal				
							
4	N XX - 1-1-	Monthly [7 Owenter-	\Box	Vacult		
Frequency:	⊠ Weekly □	Monthly [] Quarterly	. ப	Yearly		
Number of Units (cor	ntainers): <u>1</u>	Other:					
Texas State Waste C	ode No: Recycle						
Proper U.S. DOT Sh		Non-RCRA/Non-DC	T Regulated Ma	terial			
•					DO		
Class: na	UN/NA:	na	PG: na		RQ: ns		

Flash Point	pH	Reactive Sulfides	Reactive Cyan	ides	Solids
≥140 deg F	<u>neutral</u>	<u>0</u> mg/l	<u>0</u> mg/l		<u><2</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>>1500</u> mg/l	>1500mg/l	<u>0</u> mg/l	Omg/I	0mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TVABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Oil, additives Elubricants	5-40	%
Water	55-95	%
dirt/debris	0-5	%
West Popular as	\$1.000	
SERVICE CONTRACTOR CON		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>CES Analysis</u>

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

TCLP Metals: TCLP Volatiles:

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the	hazardous waste	characteristics,	listed below,	WAS NOT	PERFORMED	based upon the	ofollowing
generator knowledge:	•						•

TCLP Semi-Volatiles:	<u>x</u>	* * * .			
Reactivity:	<u>x</u>	•			
Corrosivity:	<u>x</u>				
Ignitability:	<u>X</u> -8.7.1			,	
SECTION 9: Generator'	s Certification				
The information contained	herein is based on 🛛 gener	rator knowledge an	d/or analytical data.	Thereby certify t	ha

The information contained herein is based on [X] generator knowledge and/or [] analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Date: 3 to 6

Printed Name/Title: The Mexard | Tose Acosta

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Pablanelland	
Date: 3-13-08 Approved Rejected	
Approval Number: 2652	

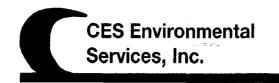
SECTION 10: Waste Receipt Classification Under 40 CFR	437
Is this material a wastewater or wastewater sludge? YES	□ NO
If 'Yes', complete this section.	
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPR	OPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory: Subpart A	•
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions	
Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals	
Cleaning, rinsing, and surface preparation solutions from el Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equ	Andrew Comment of the
Oils Subcategory: Subpart B	
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	es and the second secon
Organics Subcategory: Subpart C	
Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes	ources
Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should	d be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollue values listed below, the waste should be classified in the metals subcategory	
		nium: 0.2 mg/L	•
•		mium: 8.9 mg/L	
		per: 4.9 mg/L	
	Nicke	el: 37.5 mg/L	
(3)		waste contains oil and grease less than 100 mg/L, and does not have concel above any of the values listed above, the waste should be classified in the	
		Metals Subcategory	
:	\boxtimes	Oils Subcategory	
	ri i	Organics Subcategory	

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2653 Phoenix Pollution Control 2653



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/14/2008

Dear Steve Sams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2653

Expiration Date 3/14/2010

Generator: Phoenix Pollution Control

Address: 720 S Lynchburg Rd

Baytown, TX 77520

Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily water from daily operations. Oil from machinery and equipment

Color: darkk

Odor: hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900



	erator Information	-		,	4			
Company:	Double Ace Cargo					$\overline{}$		
Address:	WoodHouse Term		on Drive	, <u>, , , , , , , , , , , , , , , , , , </u>				
City, State, Zip:	Galena Park, Texa	IS 77347		m: /l	0 1 0		· · · · · · · · · · · · · · · · · · ·	
Contact:	Steve Sams			Title:	Sales Re			
Phone No:	(713) 530-4550			Fax No:	281.424.	//48		
24/hr Phone:	713.676.1460			_		· /		
U.S. EPA I.D. No:	TXCESQG			- 0.50.0.3		A		
State I.D.	CESQG			SIC Code:		' 		
SECTION 2: Billin	ng Information	Same as Ahove						
Company:	Phoenix Pollution Co	ontrol						
Address:	720 South Lynchbur							
City, State, Zip:	Baytown, TX 77520							
Contact:	Steve Sams		Title:	Sales Rep				
Phone No:	(713) 530-4550		Fax No:	(281) 424-77	48			
,								
SECTION 3: Gene	eral Description of th	e Waste						
None of Works. O	:1. 137-4							
Name of Waste: O	n of Process Generat	ing Wester Oily	water from	daily operation	s Oil from	machinem a	nd amrinment	
Detaned Descriptio	ii oi i iocess Generat	ing waste. Ony	Water Hom	daily operation	S. OH HOM	macminery a	iia equipment	
Physical State:	🛛 Liquid	Sludge	Г	Powder				
,,	Solid	Filter Cal		Combinatio	_			
	Soliu	Filter Car	Ke _		(1)			
Color: Dark	G	Ddor: <u>hydrocarbo</u>	ກ				100 miles	
		<u>.,,</u>	21					
Specific Gravity (w	ater=1): 0.9-1	Density:	7.5-8.34 lbs	s/gal	ž.			
,	· 	.=						
Does this material	ontain any total phe	nolic compounds	? 🗌 Yes	⊠ No				
	•	•			_			
Does this material of	ontain any para subs	stituted phenolic	compound	s? ∐ Yes ▷	☑ No	and the second		न ्यं द्वारक्कारणः ।
Layers:	Single-phase	⊠ Muli	ii-phase	e e gerang	100 mm			
Day of all		[Angeles	n-inage	555				
Comtained Tunes	П ъ		⊠					
Container Type:		LI Tote		Truck	i Li	=Other (exp	1211)	market in the second
Container Size:						· _		
Frequency:	☐ Weekly	Monthly		Quarterly	\boxtimes	Yearly	1417	
- ·		-			Construction Construction	3.470.4		5.11.
Number of Units (co	Code No:	Other:			Appendix at the control of the contr	2	Orange and the second s	<u> </u>
				igi.				
Proper U.S. DOT S	hipping Name:	Non DOT	regulated oi	l and water mix	ture			
Class: na	UN/N	A: na		PG: na	Congression of the Congression o	RQ	na na	 Proper
- 200) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1					2.5 <u>12.8 N. N.</u>	
			AT THE TAX		1000			A STATE OF THE PARTY OF THE PAR
AVE AND AND AND AND AND AND AND AND AND AND	(Maria and Control of the Control of			and the second s	100 LONG 100	198 t 20 x x	2332	1000
			1		- 1	78.54		

Flash Point	pН	Re	active Sulfides		Reactive Cyanide	5	Solids
>150	3-11	<u>na</u>	mg/l		namg/l		<u>0-1</u> %
Oil&Grease	TOC		Zinc	C	opper	Nickel	
n/amg/1-> 1500	n/amg/L > 150,	7	n/amg/l	<u>n/a</u>	amg/l	<u>n/a</u> mg/l	

SECTION 4: Physical and Chemical Data

	COMPONENTS TABLE	Concentration	Units or %	
water	The waste consists of the following materials	Ranges are acceptable 95-99	%	
oil		1-5	1%	
dirt		0-1	%	
		(1	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none known exidizens

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>x</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	X
Corrosivity:	<u>x</u>
Ignitability:	X

Authorized Signature:

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 3-13-06

Printed Name/Title:	Steve Sams / Auth. Broker For Generator	
CES USE ONLY (DO NOT W	RITE IN THIS SPACE)	
	<i>O</i> 1	A STATE OF THE PROPERTY OF THE

ı		A CONTRACT OF THE PROPERTY OF
-	Compliance Officer: Bullwilland.	
1	Date: 3-14-18 Approved Rejected	
	Approval Number	
		Amount grant than 10 miles and

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? VES VES NO

If 'Yes', complete this section.

<u>Met</u>	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 13 Waste acids and bases with or without me Cleaning, rinsing, and surface preparation Vibratory deburring wastewater Alkaline and acid solutions used to clean re	6 mg/l tals solutions from electropla	ting or phosphating oper	ations	
<u>Oils</u>	Subcategory: Subpart B				
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sour Non-contact used glycols Aqueous and oil mixtures from parts cleans Wastewater from oil bearing paint washes	rces			
<u>Orga</u>	nics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from r Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies Wastewater from organic chemical product Tank clean-out from organic, non-petroleur	formulation operations			
					The second secon
		3			

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

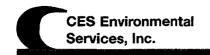
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

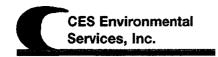
Organics Subcategory

SECTION 11: Additional Instructions

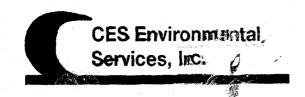
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.		
	\$ 0.10/gal + trans-18c	
2.	Contamination Limits (maximum limit before surcharges apply):	
	<10/2 Solids	18 1 1 1 1 800 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	2 5000 TOC	
3.	Surcharge Pricing:	
	Standard	
4.	Special Testing Requirements:	
	Run pH, TOC, TSS, and phenols on the water phase	
5.	Treatment and Handling Protocol:	
	_	
		- D
6.	Treated Wastewater Discharge Subcategory:	
	Subcategory A Subcategory B Subcategory C	



265 Trescent Directional 2654



Waste Pre-Acceptance/Approval Letter

Date 3/17/2008

Dear Caris or Steve McCleskey

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in House, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2654

Expiration Date 3/17/2010

Generator: Crescent Directional Drilling

Address: 7775 E. Little York

Houston, TX 77016

Waste Information

Name of Waste: Recyclable oily water and sludge

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Reinsewater and sludge from pressure washing directional drilling equipment from

petroleum industry.

Color: varies

Odor: none

pH: 6-10

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Gener	ator Information				
Company:	Crescent Direction	nal Drilling, LP			
Address:	7775 Little York				
City, State, Zip:	Houston, TX 770				
Contact:	Chris or Steve Mc	Cleskey	Title:	Management	
Phone No:	713-633-2747		Fax No:	713-635-1928	
24/hr Phone:	281-415-0337	in the same of the			**************************************
U.S. EPA I.D. No:	TXCESQG		OYO O 1	11	
State I.D.	CESQG		SIC Code:	NA	
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛛 :	Same as Above			
Contact:		Title:			
Phone No:		Fax No	2		
SECTION 3: Gener	al Description of th	e Waste			
Name of Waste: Rec Detailed Description from petroleum indust	of Process Generat	ad Sludge ing Waste: Rinse water	and sludge from pre	ssure washing directions	al drilling equipment
Physical State:	☑ Liquid☑ Solid	Sludge Filter Cake	☐ Powder ☐ Combination	1	
Color: <u>Varies</u>		Ddor: <u>None</u>			
Specific Gravity (wat	ter=1): <u>.9-1.2</u>	Density: <u>8-9.5</u> lb	s/gal		
Does this material co	ntain any total phe	nolic compounds? 🔲 Y	es 🛭 No		
Does this material co	ntain any para subs	tituted phenolic compo	unds? 🗌 Yes 🏻 🖾	No	
Layers:	☐ Single-phase	⊠ Multi-phase			
Container Type:	☐ Drum	Tote	M Truck	Other (expl	ain)
Container Size:			<u>1-2000</u>		
Frequency:		☐ Monthly		☐ Yearly	
Number of Units (cor	ntainers): 1	Other:	•		
Texas State Waste Co	• –	cyclable			
Proper U.S. DOT Shi	pping Name:	Recyclable Oily W	ater Mixture		
Class: Na	UN/NA	A: Na	PG: Na	RQ:	Na

 Flash Point	pН	Reactive Sulfides	Reactive Cyanides	Solids
>150	<u>6-10</u>		Omg/1	5-35%
Oil&Grease	TOC	Zinc C	pper Nickel	4.
≥100mg/l	<5000mg/I	TBDmg/I Ti	BDmg/l TBDmg	/ 1

SECTION 4: Physical and Chemical Data

CONTROCTORUSANATOR	Emerite Hori	or % %	
The waste consists of the following materials	Ranges are acceptable		
Water	61-90		
Oils (Hydrolic, Diesel)	2-4		
Sludge (Muds, Dirt)	5-35		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None oxidizes

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following

generator knowledge:			
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity:	TCLP Benzene X-None in Process		
Ignitability: SECTION 9: Generator The information contains	r's Certification I generator knowl	edge and/or 🖸 analytical data. II	hereby certify that the above and
attached description is comissions of composition	omplete and accurate to the best of my properties exist and that all known or so all materials described by this document	knowledge and ability to determ suspected hazards have been discle	ine that no deliberate or willful
Authorized Signature:	Jan Kin	Date: 03/10	0/08
Printed Name/Title:	Tom Simmons	RAM Monnger	
CES USE ONLY (DO NOT W	TRITE IN THIS SPACE)	TRANS 105/hr TECH#30/hr	
Date: 3-17-08	Approved Rejected	.40/gal@1400 n Fuel26% of tra	nin
Approval Number:	54	Fuel 26% of tro	ans .

. MAR-	-14-2000 10:50 CES ENVIROMENTAL		7137499664
S	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>37</u> <u>Proper</u>	
			100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg
<u> </u>	sthis material a wastewater or wastewater studge? X YES	L NOTA	engernavarensi
7.	f 'Yes', complete this section.	The state of the s	
ند <u>مسجود در در در در در در در در در در در در در</u>	1 165, complete this section.	and the second s	
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY, G	O TO THE NEXT PAG
<u>Me</u>	tals Subcategory: Subpart A	to the second of	
	Spent electroplating baths and/or sludges		
片	Metal finishing rinse water and sludges		
	Chromate wastes		
H	Air pollution control blow down water and sludges		
- H	Spent anodizing solutions		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
H	Incineration wastewaters		and the second s
H	Waste liquid mercury		au (hai
	Cyanide-containing wastes greater than 136 mg/l		
H	Waste acids and bases with or without metals	g # skele	Section of the sectio
Ħ	Cleaning, rinsing, and surface preparation solutions from elec	ctroplating or phosphating	operations
Ħ	Vibratory deburring wastewater		- Promozo
Ħ	Alkaline and acid solutions used to clean metal parts or equip	ment	
-			
Oils	Subcategory: Subpart B		
			At the second second
	Used oils		
	Oil-water emulsions or mixtures		
	Lubricants		
	Coolants		
	Contaminated groundwater clean-up from petroleum sources	•	
	Used petroleum products		BEATTER MANAGER TO THE TOTAL CO.
	Oil spill clean-up		
	Bilge water		
\boxtimes	Rinse/wash waters from petroleum sources		
	Interceptor wastes		
· 🔲	Off-specification fuels		
	Underground storage remediation waste	•	
IJ.	Tank clean-out from petroleum or oily sources		
	Non-contact used glycols		
	Aqueous and oil mixtures from parts cleaning operations		
	Wastewater from oil bearing paint washes		
<u>Orga</u>	anics Subcategory: Subpart C		*
	Y 1001 Sunday	·	
님	Landfill leachate		
H	Contaminated groundwater clean-up from non-petroleum sour	CCS	
닐	Solvent-bearing wastes		
H	Off-specification organic product		
H	Still bottoms		
님	Byproduct waste glycol		
片	Wastewater from paint washes		
	Wastewater from adhesives and/or epoxies formulation		

Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

		If the	waste contains oil and grease	at or in exce	ss of 100 mg/L,	the waste should	be classified in the oil	s subcategory)	
	(2)	If the of the	waste contains oil and grease values listed below, the waste	less than 100 should be c) mg/L, and has lassified in the n	any of the pollutar netals subcategory	nts listed below in con	ncentrations in	excess
	क उन्हें हैं इस्तिहास	Chron	ium: 0.2 mg/L nium: 8.9 mg/L			Second State (Second		1.04%, 42.045	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
and the second second			r: 4.9 mg/L : 37.5 mg/L		and the second s		Literatura (n. 1828) Literatura (n. 1828)		e reige
	(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.							
- Walanta			Metals Subcategory			en en en en en en en en en en en en en e			
		Ø	Oils Subcategory						
			Organics Subcategory	* ***		£	ina di inggani di ingg		A STATE OF THE STA

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



- - An archive to the series and a

1.	Base Pricing (including freight):	a thinks to be the section		
	.40/gal \$400 Min	Tarragina (Albania)		
	Air Machine \$105/hr plus FSC			
				. *
		14 3 4 5 1		
2.	Contamination Limits (maximum limit before surcharges apply):	egi (es à ser		· · · · · · · · · · · · · · · · · · ·
	Call if more than 50% solids >1000PPM on Chlor-d-Tect	Mary Annual Control of the Control o	the state of the	ing a size of
		2		
				•
		· · · · · · · · · · · · · · · · · · ·		
3.	Surcharge Pricing:			
	Call Sales person			
				·
į				<u> </u>
4.	Special Testing Requirements:			
	City Metals Chlor-d-Tect on Oil Phase			
	there pH, TOC, TSS, and phenols on the	water pha	e	
5.	Treatment and Handling Protocol:			
1	Unload aqueous and oil portion from the top of the trailer			
	Offload solids into sludge box			
	e de la companya de la manda de la companya del companya del companya de la compa			
6.	Treated Wastewater Discharge Subcategory:			
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory B	tegory C		:



Marine con considerations and a second	<u></u>	ninera duera. In la como estas con como como como como como como como	
7.	Tests for Product Recovered/Recycled (if ap	pplicable):	
	Chlor-d-Tect on Oil Phase	. Since .	- S - C - C - C - C - C - C - C - C - C
		A contract of the contract of	A company of the comp
			1
8.	Management for Product Recovered/Recycl	ed (if applicable);	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
e en secondo de la maga e	Oil Area for Processing		



401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

8030040

Tof 1

Customer: CES Env.

Sample ID: 0308-09

Environ ID: 8030040

Project ID: Crescent Directional Drilling

Sampled: 03-04-08

Project Loc: East Little York, Hou., TX

Matrix: Waste Water

Received: 03-04-08

Charge/P.O.:

Type: Grab

Reported: 03-09-08

e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de Companya de la companya 4 14 114	(14) W	RECEIVED B	ASIS	Adams of					
ANALYTE /	F	ESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER		i nimita	<u> </u>	LIMIT =	g tylen i	METHOD	BY	1.	,
BENZENE TCLP				Sag. 1					1
Benzene	<	0.001	mg/l		0.001	SW846.8021B	DMB	03-05-08	17:19
RCI*		e e Age		\$ s	day.			10000	,,,,,
Reactive Cyanide	<	20	mg/kg	250	20	SW846.7.3.3	CL	03-04-08	14:30
Reactive Sulfide	<	20	mg/kg	500	20	SW846.7.3.4	CL	03-04-08	
Corrosivity (pH)		7.70 -	su	=>2; =<12.5		SW846.9045C	JΕ	03-05-08	
Ignitability	>	150	°F	> 140		SW846.1010M	DEB	03-04-08	12:30
METALS (RCRA) - TCLP				1		SW846.1311	JA	03-04-08	
Arsenic .	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-05-08	16:48
Barium		0.79	mg/l	100	0.02	SW846.6010B	JA	03-05-08	16:48
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JA	03-05-08	16:48
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-05-08	16:48
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	03-05-08	16:48
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA	03-05-08	16:48
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	JA	03-05-08	16:48
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A	.MN	03-05-08	11:00

Definitions:

TCLP - Toxcisity Charasteric Leaching Procedure

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D **Laboratory Director**

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANIAL VOICE BATTAL		METHOD:	EDA OMOACICOAO	AAA TOW.	60110
ANALYSIS: METAL	.5	METHOD:	EPA SW846/6010	MATRIX:	SOLID

ANALYST:	JA	DATE: 03-05-08	UNITS:	PPM (mg/kg)	NO.SAMPLES:	11

SAMPLES:	62992.01	62992.02	62992.03	8010279	8010427	8020031	8020271	5020283
	482	483	484					. 1445 c
		and the second						Ariston (

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID:	62992.01

		(1)								
SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	/ITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4	85	89	5	85	0	75 - 125	20
Barium	0.00	5	4	86	93	8	92	0	75 - 1 25	20
Cadmium	0.00	5	4	- 83	91	10	96	0	75 - 125	20
Chromium	0.00	5	4	83	90	8	90	0	75 - 125	20
Lead	0.00	5	4	83	89	7	91	0	75 - 125	20
Selenium	0.00	5	4	- 86	93	8	94	0	75 - 125	20
Silver	0.00	5	4	83	92	10	95	0	75 - 125	20

ANALYSIS:	METALS	M	ETHOD:	EPA SW846/6	010	MATRIX:	LIQUID	
								_

Control of the Contro

ANAL	YST:	JA	DATE:	03.05.08	UNITS:	PPM (mg/l)	NO.SAMPLES:	7
						in sec		

SAMPLES:	8030040	8030041	8030063	8030064	8030065	8030066	8030067	
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MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 5030040

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	1ITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4.24	85	89	5	85	0	75 - 125	20
Barium	0.00	5	4.30	86	93	_ 8	92	0	75 - 125	20
Cadmium	0.00	5	4.14	83	91	10	96	0	75 - 125	20
Chromium	0.00	5	4.15	83	90	8	90	0	75 - 125	20
Lead	0.00	5	4.16	83	89	7	91	0	75 - 125	20
Selenium	0.00	5	4.30	86	93	8	94	0	75 - 125	20
Silver	0.00	5	4.16	83	92	10	95	0	75 - 125	20

diameter.

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ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: MERCURY METHOD: EPA SW846/7471A MATRIX: LIQUID

ANIAT MOTO	3 45 1	COATE	60 AF AO	I INTER	P	NO OAKON FO	
ANALYSTS:	MN	IDATE:	03.05.08	UNITS:	ma/i	NO.SAMPLES:	n

SAMPLES:	8030040	8030041	8030063	8030064	8030065	8030066	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METH.	CORR.	QCLI	MITS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF.	RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	Ó	1	60 - 120	20

JOHN KELLER, Ph.D Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

The second secon

ANALYSIS: BTEX METHOD: EPA SW846/5030/8021B MATRIX: LEACHATE

ANALYST: dmb |UNITS: #mg/l | NO.SAMPLES: 1

india.

SAMPLES:	8030040	404					
The second secon			Salara Salar	the worth on	, in a second	2 - Say	 100
		100					

MATRIX	MATRIX	SPIKE	MS	MS	MSD	RPD	CCV	МВ	QC LIMIT	S (%)
62943-01	RESULTS	ADDED	RESULTS	REC	REC	L	REC	l	REC-RANGE	APD
BENZENE	0	100	83	83	83	1	89	0	60 - 120	20
TOLUENE	0	100	82	82	83	0	87	0	60 - 120	20
Et-BENZENE	0	100	86	86	85	1	90	0	60 - 120	20
XYLENES	0	300	282	94	92	2	97	0	60 - 120	20
MTBE	0	100	103	103	114	10	97	0	60 - 120	20

KEY:

The same and the s

BTEX - Benzene (BENZ), Toluene (TOL)

Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent

JOHN KELLER, Ph.D

03-05-08

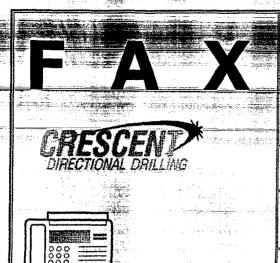
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l	EELUSE ONLY	SAMPLE ID.	DATE/TIME SAMPLED	MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	трн (Т)	<u>5</u>	PAH	VOLATILES	SEMI-VOLS	RCRA 8 METALS	412	_					-					* *
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	Deliver	s constitutes acceptance of Environ's terms	and conditions in the P							•									: .					3-6



Fo: CES Environmental Services, Inc. Con BowmA

Fax number: 713-676-1676

From: Tom Simmons w/ Crescent Directional

Drilling

Fax number: 713-635-1928

Date: 3/14/2008

Regarding:

Environmental Services

Phone number for follow-up:

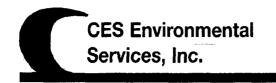
713-633-2747

Comments: Please let us know if there is anything else needed.

7775 E. Little York Houston, TX 77016 713-633-2747

Fax: 713-635-1928

Greens Bayou 2655 2655





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Brenda Zamaca

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2655

Expiration Date 3/18/2010

Generator: Greens Bayou Pipe Mill, LP

Address: 13935 Industrial Road

Houston, TX 77015

Waste Information

Name of Waste: Non-RCRA oily rags and PPE

TCEQ Waste Code #: 00044891

Container Type:

CY sac

Detailed Description of Process Generating Waste:

Hydraulic oil contaminated rags and PPE

Color: varies

Odor: oily

pH: na

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

TO: Dan Bowman COMPANY: CES Environmental Serv Inc

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	SECTION 1: Ger Company:	erator Information Greens Bayeu Pip	a \$631	***************************************			Setsoekenneseeveska
	Address:	13935 Industrial F	58d	*******************************			
	City, State, Zip:	Houston, TX 772	10		and popular in the second second second second second second second second second second second second second		
	Contact:	Sergio	5/4/4/4	Title:	Managemen		-
	Phone No: 24/hr Phone:	713-450-7753		Fax No:	713-450-78		
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	City, State, Zip:	Houston,TX 77229	was Tifle:		****************		
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	SECTION 3: Geo	eral Description of th	e Wasic				***
				•			
		ion-RCRA Oily Rags s on of Process General	nd PPE ing Waste: <u>Hydrolic oil</u>	contaminated rags	and PPE		
	Physical State:	☐ Liquid	Sludge	Powder			
	A Whoseney Commercia	Solid	Filter Cake	Combinatio	**	•	
		STA CHANG	Carlo Action Actions	The Committee	92		
	Color: <u>Varies</u>	ŧ)dor: <u>Oil</u> y				
	Specific Gravity (v	vater=1):	Density: I-9 les/				
	Does this material	contain any total phe	nolic compounds? [[] Y	es 🖾 No	u u	•	
	Does this material	contain any para sub	stituted phenolic compo	unds? Nes [3 No		
	i e e e e e e e e e e e e e e e e e e e				- Marian San Andreas	and the second s	***
	Layers:	Single-phase	Multi-phase		Tan		
		print		,	-	i La transfer de la company	िया की जी जिल्हा की करा
	Container Type:	☐ Drum	□ Tote	Truck		ther (explain)	W. Control
2	Container Size:	Asimone	***************************************		<u> </u>	Y Sack	
			2.668° *		77 - V 1 - 25 - 1		
•	Frequency:	☐ Weekly	Monthly		□ Y	early	
	Number of Units (containers): 1-8	Other:				~ ·,
	Texas State Waste		044891	54 7 83.	egan (constitution and constitution and constitution and constitution and constitution and constitution and co makes to constitution and con	<u> </u>	ing the state of t
<u></u>	Proper U.S. DOT	Medianista Washer	Non-B/24 Non-	OT Regulated Wa	anna ann ann an aireann an Aireann an Aireann an Aireann an Aireann an Aireann an Aireann an Aireann an Airean	minated EDF	
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TO: Dan Bowman COMPANY: CES Environmental Serv. Inc.

PPE 50 Rags 25 Pads, Absorbents 0-7 SECTION 5: Safety Related Data If the handling of this waste requires the use of special protective equipment, pletevel D PPE SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the sensition of the sensition of the sensition of the sensition of the sensition of the sensition of the hazardous waste characteristics, listed below, WAS Negenerator knowledge: SECTION 8: Generator's Knowledge Documentation Laboratory analysis of the hazardous waste characteristics, listed below, WAS Negenerator knowledge:	50	i long
ECTION 4: Physical and Chemical Data EONTRON State	CONTENTS Ranges are accept 95 50	i Office table or %
The waste consists of the following materials PPE	Ranges are accept 95 50	table 01 % % % %
Rags 25 Fads, Absorbents 0.0-2 SECTION 5: Safety Related Data If the handling of this waste requires the use of special protective equipment, pletered DPPE SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the Generator Knowledge SECTION 7: Incompatibilities Please list all incompatibilities (if any): None SECTION 8: Generator's Knowledge Documentation Laboratory analysis of the hazardous waste characteristics, listed below, WAS Negenerator knowledge: TCLP Metals: TCLP Semi-Volatiles: Reuntivity: Corrosivity: Ignitability: SECTION 9: Generator's Certification The information contained herein is based on generator knowledge and/or analysisions of composition properties exist and that all known or suspected hazards it tested are representative of all materials described by this document. Authorized Signatures 30 Authorized Signatures	95 60	% 5%
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•	(1)	If the	waste contains o	il and grease	as or in excess o	f 100 mg/L, the wi	aste should be classified	in the olls subcategory.
	(3)	If the of the	waste contains o values listed bel	il and grease ow, the wast	less than 100 m e should be class	g/L, and has any of ified in the metals	the pollutants listed bel subcategory	ow in concentrations in c
	•		um: 0.2 mg/L		*. *.			
		Coppe	ium: 8.9 mg/L r: 4.9 mg/L r: 37.5 mg/L					
	(3)	If the nickel	waste contains o above any of the	il and grease e values liste	less than 100 mg d above, the was	gL, and does not b to should be classi	ave concentrations of ca fied in the organics subc	dinium, chromium, copp ategory.
			Metals Subca	tegory				•
			Oils Subcates	iory			•	
			Organies Sub	category	,	•		
	•			. 4. 4				
	SECT	ION 11:	Additional lus	tructions			•	
٠	If you	b socos:	etermine the con	rect subcates	ory in Section 9	and you did not fu	rnish data for the concer	stration of Cadmium,
	Chrom	ium, Coj trations.	ppet, Nickel, and This will be pri	i Oil and On or to accept	use CES will se ince. The genera	nd offsite to a com tor will be respons	mercial laboratory a sar lible for the cost of the a	naide a Udie to desemme mese
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			and Newson					
			88135 38 - 10 -					
			88135 38 - 10 -					
		·	And Superior Control of the Control					

COMPANY: CES Enviromental Serv. Inc. TO:Dan Bowman MAR-11-2009 18:06 CES ENVIROMENTAL 7137408664 F,606 **CES Environmental** Services, Inc. PROCESS FACILITY INFORMATION (CES USE ONLY): 1. Base Pricing finefuling freight: Trans \$69/hr plus FSC Disposal \$95 Cubic Yard Sack \$45/ea 2. Contamination Limits (maximum limit before surcharges apply): 3. Surcharge Pricing: None Special Testing Requirements: None 5. Treatment and Handling Protocol: Class 1 Solids SANTANT SAFA Treated Wastewater Discharge Subcategory: Subcategory A Subcategory B Subcategory C

Fax Server 3/12/2008 2:36:24 PM PAGE 7/007 Fax Server TO: Dan Bowman COMPANY: CES Environmental Serv. Inc. MAR-11-2008 18:07 CES ENVIROMENTAL 7137488664 P.007 CES Environmental Services, inc. PROCESS FACILITY INFORMATION (CES USE ONLY: 7. Tests for Product Recovered/Recycled (if applicable): S. Management for Product Recovered/Recycled (if applies bie):

Hydrochem 2656 7656

3,31.08 Cupies to trand BAR

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/31/2008

Dear Ginger Curtis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2656

Expiration Date 3/18/2010

Generator: Hydrochem @ Entergy

Address: 11191 Long Street

Willis, TX 77318

Waste Information

Name of Waste: EDTA wastewater TCEQ Waste Code #: 08331141

Container Type:

Detailed Description of Process Generating Waste:

wastewater from the chemical cleaning of a boiler

Color: dark

Odor: ammonia

pH: 8-10

Physical State:

Incompatibilities: oxidizers, acids, aluminum

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

	erator Information	S. 1. @ F. 4				
Company:	Hydrochem Deer I					
Address:	Willis, TX 77318	Koau				
City, State, Zip: Contact:	David Barrett		·	Title:	Accoun	t Manager for Hydrochem
Phone No:	281-479-8436			Fax No:	281-479	
24/hr Phone:	903-399-8622				201-472	7-0702
U.S. EPA I.D. No:	TXD054447438			-		
State I.D.	31055			SIC Code:	NA	
State 1.D.				-		
	ng Information - S	Same as Above				
Company:	Hydrochem Inc 620 Howard Drive					
Address:						
City, State, Zip:	Deer Park, TX 77536	<u> </u>	TP:41	A community of the comm		
Contact:	David Barrett		Title:	Account Man		
Phone No:	281-479-8436		Fax No:	281-479-8982	?	
Name of Waste: E	eral Description of the DTA wastewater n of Process Generati		tewater from	the chemical c	leaning of	a boiler
	57	C	_	7		
Physical State:	∠ Liquid	☐ Sludge	L	Powder		
	☐ Solid	Filter Ca	ke [] Combination	n	
•						
Color: <u>dark</u>		dor: <u>ammonia</u>				
Specific Gravity (w	ater=1): <u>1</u>	Density	: <u>8.34</u> lbs/gal	1		
Does this material of	contain any total pher	olic compound	s? 🗌 Yes	⊠ No		
Does this material o	ontain any para subs	tituted phenolic	compound	s? 🗌 Yes 🛭] No	
Layers:	Single-phase	☐ Mul	ti-phase			
Container Type:	☐ Drum	☐ Tote	\boxtimes	Truck	П	Other (explain)
	ساله الم		67			Contraint)
Container Size:				<u>5000</u>		
	•				/	•
Frequency:	☐ Weekly	Monthly		Quarterly	 ✓	Yearly
				- •		-
Texas State Waste		083311	41	D	-:->	
Proper U.S. DOT S	hipping Name:	Non KCR	A Non DOT	Regulated Mate	FIAL	
Class: NA	UN/NA	: NA		PG: NA		RQ: NA
· · · · · · · · · · · · · · · · · · ·						
	and the second second		and the sequence of the			

Flash Point	рН	Reactive Sulfides	Reactive Cyanide	es Solids
<u>>150</u>	<u>8-10</u>	<u>0.35</u> mg/l	<0.25mg/l	<1%
Oil&Grease	TOC	Zinc	Copper	Nickel
Omg/l	4000 mg/i	0.2mg/l	3mg/l	<u>1.7</u> mg/l

SECTION 4: Physical and Chemical Data

(ANALONALE SERVICE)	(60)(44)(40)	etiti.
The waste consists of the following materials	Ranges are acceptable	or %
Water	95-100	%
ChelCLean 675 Chelating Agent	<1	%
Antifoam Agent M246	<0.5	%
Corrosion Inhibitor A300	<0.5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical #8030312, MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers, acids, aluminum

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

ICLP Metais:			
TCLP Volatiles:	<u>X</u>		
TCLP Semi-Volatiles:	<u>X</u>		
Reactivity:			en en en en en en en en en en en en en e
Corrosivity:	·		
Ignitability:	·		
SECTION 9: Generato	r's Certification		
attached description is composition	complete and accurate to the be	or knowledge and/or analytical data. I hereby st of my knowledge and ability to determine the nown or suspected hazards have been disclosed. document.	at no deliberate or willful
Authorized Signature: _	Der Edwart	Date: 3-17	-08
Printed Name/Title: Gl	in Edwards Chemistry/Environn	nental Specialist	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Polymore

Date: 318-18 Approved Rejected

Approval Number 2

<u>s</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 43	<u>7</u>		
Is	this material a wastewater or wastewater sludge? XES	□ NO		
If	'Yes', complete this section.			
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROP	RIATE CATEG	GORY, GO TO THE N	EXT PAGE.
Mei	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electr Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipm		sphating operations	
<u>Oils</u>	Subcategory: Subpart B			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
<u>Orga</u>	nics Subcategory: Subpart C		- 11	Adjust por the control of
	Landfill leachate Contaminated groundwater clean-up from non-petroleum source Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	28		
· · · · · · ·	CONTRACTOR STATE OF THE STATE O			
n nen j		eren er en er er er er er er er er er er er er er		
	3			

- If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory. (1)
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

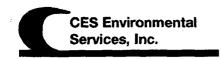
 \boxtimes Metals Subcategory

Oils Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	80.1/gailon
	\$0.0/gailon
2.	Contamination Limits (maximum limit before surcharges apply):
	Solids: 1% TOC 5,000
	100 3,000
3.	Surcharge Pricing:
	80.01/gas/90 greater than 190
	\$0.03/gal/ 5000TOC greater than 5000TOC
	July 1
4.	Special Testing Requirements:
	pt, Toc, phenoland Ammonia
5.	Treatment and Handling Protocol:
	this waste must process slowly at about town 1,000 7-llons for each
	processing tank to process the ammonia slowly. This wester
	processing tank to process the ammonia slowly. This wester will involve specialty sprocessing
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product Recovered/Recycled (if applicable):
NA
Management for Product Recovered/Recycled (if applicable);
NA

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park. TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460

Fax: (713) 676-1676

Attn:

Dana Carter

- CERTIFICATE OF RESULTS -

MES Lab#:

8030312

Client Sample ID:

Waste Water 0308-35

Sample Collect Date: 3/10/2008 @ 5:05:00 PM

Sample Type:

Grab

Sample Receipt Date: 3/11/2008 @ 5:20:00 PM

TCLP Metals (8)	MDL	RL	Decula	Units	Analyst: HDGIL Date / Time
Method: SW-846 6010B	0.014	5	Result < 0.014		3/12/2008 / 12:06 AM
,	0.0014	100	0.383	mg/L	3/12/2008 / 12:06 AN
Barium	0.0003			mg/L	
Cadmium		1	0.054	mg/L	3/12/2008 / 12:06 AM
Chromium	0.002	5	2.05	mg/L	3/12/2008 / 12:06 AM
Lead	0.005	5	0.470	mg/L	3/12/2008 / 12.06 AM
Selenium	0.024	1	< 0.024	mg/L	3/12/2008 / 12:06 AM
Silver	0.002	5	< 0.002	mg/L	3/12/2008 / 12:06 AM
TCLP Mercury					Analyst: TRAHM
Method: SW-846 7470A	MDL	RL	Result	Units	Date / Time
Mercury	0.0008	0.2	< 0.0008	mg/L	3/11/2008 / 10:30 PM
•		0.2	< 0.0008	mg/L	
Mercury Reactivity, Recoverable Hydrog Method: 7.3.3.2		0.2	< 0.0008	mg/L Units	3/11/2008 / 10:30 PM Analyst: CL Date / Time
Reactivity, Recoverable Hydrog	en Cyanide	0.2		-	Analyst: CL
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide	en Cyanide MDL 0.25	0.2	Result	Units	Analyst: CL Date / Time 3/13/2008 / 10:05 AM
Reactivity, Recoverable Hydrog Method: 7.3.3.2	en Cyanide MDL 0.25	0.2	Result	Units	Analyst: CL Date / Time
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide Reactivity, Recoverable Hydrog	en Cyanide MDL 0.25 en Sulfide	0.2	Result < 0.25	Units mg/kg	Analyst: CL Date / Time 3/13/2008 / 10:05 AM Analyst: CL
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide Reactivity, Recoverable Hydrog Method: 7.3.4.2 Hydrogen Sulfide	en Cyanide MDL 0.25 en Sulfide MDL	0.2	Result < 0.25 Result	Units mg/kg Units	Analyst: CL Date / Time 3/13/2008 / 10:05 AM Analyst: CL Date / Time 3/13/2008 / 10:30 AM
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide Reactivity, Recoverable Hydrog Method: 7.3.4.2	en Cyanide MDL 0.25 en Sulfide MDL	0.2	Result < 0.25 Result	Units mg/kg Units	Analyst: CL Date / Time 3/13/2008 / 10:05 AM Analyst: CL Date / Time
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide Reactivity, Recoverable Hydrog Method: 7.3.4.2 Hydrogen Sulfide Corrosivity: pH	en Cyanide MDL 0.25 en Sulfide MDL 0.25	0.2	Result < 0.25 Result 0.36	Units mg/kg Units mg/kg	Analyst: CL Date / Time 3/13/2008 / 10:05 AM Analyst: CL Date / Time 3/13/2008 / 10:30 AM Analyst: JE
Reactivity, Recoverable Hydrog Method: 7.3.3.2 Hydrogen Cyanide Reactivity, Recoverable Hydrog Method: 7.3.4.2 Hydrogen Sulfide Corrosivity: pH Method: SW-846 9045	en Cyanide MDL 0.25 en Sulfide MDL 0.25	0.2	Result < 0.25 Result 0.36	Units mg/kg Units mg/kg	Analyst: CL Date / Time 3/13/2008 / 10:05 AM Analyst: CL Date / Time 3/13/2008 / 10:30 AM Analyst: JE Date / Time

Report Date: 13-Mar-08

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8030312

Client Sample ID:

Waste Water 0308-35

Sample Collect Date: 3/10/2008 @ 5:05:00 PM

Sample Receipt Date: 3/11/2008 @ 5:20:00 PM

Sample Type:

Grab

BTEX (W) Method: EPA 602	MDL	Result	Units	Analyst: HDG Date / Time				
Benzene	0.05	< 0.05	mg/L	3/13/2008 / 2:38 PM				
Toluene	0.05	< 0.05	mg/L	3/13/2008 / 2:38 PM				
Ethyl benzene	0.05	< 0.05	rng/L	3/13/2008 / 2:38 PM				
M+P-Xylene	0.05	< 0.05	mg/L	3/13/2008 / 2:38 PM				
o-Xylene	0.05	< 0.05	mg/L	3/13/2008 / 2:38 PM				

Flags: H; Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Thursday, March 13, 2008

Date

Report Date: 13-Mar-08

8030312

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	90	81	9.9	< 0.002	97	58.4	59.0	0.92
Barium	< 0.002	83.3	88	5.26	< 0.002	101	60.5	60.4	0.2
Cadmium	< 0.001	88.2	87.5	0.80	< 0.001	98	62.0	63.0	1.6
Chromium	< 0.001	85	84	1.439	< 0.001	96	66.8	67.3	0.7
Lead	< 0.002	83.2	82.9	0.27	< 0.002	97	61.0	61.3	0.5
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Selenium	< 0.024	66.4	80.1	18.8	< 0.024	99	56.4	59.3	5.0
Silver	< 0.001	94	92	2.809	< 0.001	97	66.1	63,3	4.33
ANALYTE		STD					· · · · · · · · · · · · · · · · · · ·		
Flashpoint		82°F							
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD					
pH	7.0	8.90	8.90	0.00					
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD					
Reactivity as	Hydrogen Sulfide	905	905	0.00					
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD	STD %REC				
Reactivity as I	Hydrogen Cyanide	< 0.25	< 0.25	0.00	100		No. A.		

						EFF CATT
ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	STD %REC
Benzene		< 0.005	90.8	91.0	0.22	89.6
Toluene		< 0.005	100.0	101.0	1.00	98.9
Ethylbenzene		< 0.005	99.8	104.0	4.12	99.7
m+p Xylene		< 0.005	102.0	112.0	9.35	110.3
o-Xylene		< 0.005	97.3	108.0	10.42	103.2

9URROGATE SPIKE RECOVERY FOR BTEX % REC

4-Bromofluorobenzene 80.90
Toluene-d8 96.3
4-Bromoflourobenzene 93.1

- Mercury Environmental Services, Inc.

8030312 Page 2

QA/QC REPORT CONTINUED

MES

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature: _

Holland D. Gilmore / Laboratory Director

March 13, 2008

Mercury Environmental Services, Inc.

COMPANY NAME: (BILL TO:) CI COMPANY ADDRESS: 4904 CITY HOUSTON	3 Euri Gernas	RONM RONM STA	ENTEL TX	2/19	7702			ES tury E						rody s	(2	00-771- 81) 476- (281)-476	4534	
CONTACT PERSON'S NAME: DANA CARLEN CONTACT PERSON'S PHONE: (713)676-1460 FAX #: (713)676-1676										ERS FOR ANALYSIS			NUMBER OF CONTAINERS PRESERVATIONS			TURNARQUNO YI		
0	rour p.o. n: 1305-35	EN	YOUR PR	OJECT VAM	E:	$\Box /$	3/-	- / K	-/-				OF CON	PRESENVA NONS	GE SPECIA	TECTION U	EQUIRED	
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YOUR SAMPLE DESCRIPTION WASTEWATER 030		GRAB/GOMP.	3/10	5:0	5					: :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<	•		se describe include sep sheet detaili requirement	arate Ing	
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MATERIAL SAFETY DATA SHEET



Page:

DATE PREPARED: 11/07/2007

MSDS No: V675

ChelClean™675 Chelating Agent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ChelClean™675 Chelating Agent

Product Code: V675

Product Name: ChelClean™675 Chelating Agent

Chemical Family: Chelant

Generic Name: EDTA, tetraammonium salt

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact: HydroChem ER Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt.%</u>	CAS Registry #
Tetraammonium ethylenediaminetetraacetate	46.8	22473-78-5
Ammonium hydroxide	<1	1336-21-6

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE:
Light yellow liquid

IMEDIATE CONCERNS:

Irritating to eyes, respiratory system and skin.

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.



Page: 2 DATE PREPARED: 11/07/2007 MSDS No: V675

ChelClean[™] 675 Chelating Agent

ROUTES OF ENTRY:

Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for several minutes while holding eyelids open. Seek medical attention.

SKIN: Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION: If swallowed, consult physician immediately. Do not induce vomiting.

INHALATION: Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C Penskey-Martens, CC

Flammable Limits: Not applicable

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

When heated to decomposition, ammonia, oxides of carbon and nitrogen, cyanides and harmful organic fumes are released.

EXPLOSION HAZARDS:

Vapors may form explosive mixture with air.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.



Page: 3
DATE PREPARED: 11/07/2007
MSDS No: V675
ChelClean[™]675 Chelating Agent

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbent (dry sand, vermiculite, earth)

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required.

Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation -General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

Use NIOSH approved respirator with ammonia protection (color coded green). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.



Page: 4 DATE PREPARED: 11/07/2007 MSDS No: V675 ChelClean"675 Chelating Agent

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Ammonia Color: Light yellow pH: 9.2 to 9.6 Percent Volatile: 53

Vapor Pressure: Not Determined Vapor Density: Not Determined Boiling Point: 190°F 88°C Freezing Point: -18°F -28°C

Solubility in Water: Completely Miscible in All Proportions

Specific Gravity: 1.18 at 25°C

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

When heated to decomposition, ammonia, oxides of carbon and nitrogen, cyanides and harmful organic fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizers, Acids, Aluminum

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Mist

is irritating.

TARGET ORGANS:

No data found

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.



Page: 5 DATE PREPARED: 11/07/2007 MSDS No: V675

ChelClean[™] 675 Chelating Agent

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rats) > 3,980 mg/kg

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: LC (50) = bluegill (Lepomis macrochirus), 96h: 705 mg/l

MOVEMENT & PARTITIONING

For similar material(s): Bioconcentration potential is low (BCF less than 100 or log Pow less than 3)

PERSISTENCE AND DEGRADABILITY

For this family of materials: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%)

ECOTOXICITY

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L)

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: V675 Chelating Agent -Not Regulated

Reportable Quantity (RQ) Under CERCLA: None

Placards: None Label: None



Page: 6
DATE PREPARED: 11/07/2007
MSDS No: V675

ChelClean[™]675 Chelating Agent

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: No

Chronic: No

313 Reportable Ingredients: Ammonia (8.92 %)

Title III Notes: Ammonia includes anhydrous ammonia and aqueous ammonia

from water, dis-sociable ammonia salts and other sources.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity of V675 liquid: 10,200 gal (ammonium hydroxide)

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous

Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statue.

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statue.

US. Toxic Substances Control Act

All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

WHMIS:

1% for ammonium hydroxide



Page: 7
DATE PREPARED: 11/07/2007
MSDS No: V675
ChelClean²²675 Chelating Agent

16. OTHER INFORMATION

REASON FOR ISSUE:

Review 11/07/07

Biannual review

Approval date: 01/22/2001

REVISION SUMMARY

Revision #: 3

This MSDS replaces the September 25, 1998 MSDS. Any changes in information are as follows:

In Section 1

Approved by Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 4

First aid - Ingestion

In Section 11

Target Organ Section 11 Footnotes

In Section 15

SARA Title III Notes SARA 313 Reportable Ingredients

NFPA CODES

Fire: 0

Health: 1

Reactivity: 0

HMIS CODES

Fire: 0

Health: 1

Reactivity: 0



Page: 8
DATE PREPARED: 11/07/2007
MSDS No: V675
ChelClean™675 Chelating Agent

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MATERIAL SAFETY DATA SHEET



Page:

DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Antifoam Agent M246 Product Description: Antifoam Agent M246

Product Code: M246

Product Name: Antifoam Agent M246

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact: Emergency Phone ${\bf HydroChem\;ER}$

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

wt.% CAS Registry #

Proprietary Mixture of Organic Compounds (trade secret)

COMMENTS:

Component Expourre Limits:

Aliphatic Alcohol Derivative (OSHA PEL = mg/m3, ACGIH TLV = 1 mg/m3)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Clear light yellow liquid with alcohol odor.

IMMEDIATE CONCERNS:

Combustible liquid.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing disorders of the skin.

ROUTES OF ENTRY:

Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

SKIN:

Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: 195°F 91°C SETA Flash CC

Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

GENERAL HAZARD:

Vapors may travel along the ground and ignite when an ignition source is contacted.

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and harmful organic chemical fumes.

EXPLOSION HAZARDS:

Vapors may form explosive mixture with air.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic or steel drum.

Soak up residual on inert absorbant (sand).



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

Keep away from heat, sparks, and flame. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY

None normally needed. For protection from liquid mist, use NIOSH approved respirator with mist protection.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Alcoholic Color: Light yellow pH: Not Determined Percent Volatile: 76.5

Vapor Pressure: 0.05 mm Hg at 20°C Vapor Density: Not Determined Boiling Point: >360°F 182°C Freezing Point: Not Determined Solubility in Water: Low Specific Gravity: 0.87 (water=1)

EPAHO108001829



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID:

Keep away from heat, sparks and flame.

HAZARDOUS DECOMPOSITION:

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizing materials

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts. Ingestion: Harmful if swallowed. Large amounts may cause illness or death.

Inhalation: Irritant. May cause pain and coughing. May cause headache, narcosis.

GENERAL COMMENTS:

LD50 (female rats) = 2000 mg/kg

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry(s) in RTECS for complete information.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable. Fish Toxicity: No information

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Combustible Liquid, NOS (contains 2-ethyl-1-hexanol)

Combustible Class: Yes NA/UN Number: NA1993

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: None

Placards: Combustible Liquid

Label: None

SPECIAL SHIPPING NOTES:

Not regulated in containers with a capacity less than 120 gallons.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: Yes Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not Established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

REGULATIONS

State Regulations: This product contains the following chemicals on the Massachusetts Hazardous Substance List: 2-ethyl-1-hexanol.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 11/03/2000

REVISION SUMMARY

Revision #: 7

This MSDS replaces the November 01, 1999 MSDS. Any changes in information are as follows:

Approved by Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 15

SARA Title III Notes

NFPA CODES

Fire: 2 Health: 2

Reactivity: 0

HMIS CODES

Fire: 2

Health: 2

Reactivity: 0

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MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identi⁻er: Low-Hazard Corrosion Inhibitor A300

Product Code: A300

Product Name: Low-Hazard Corrosion Inhibitor A300

Chemical Family: Inhibitor

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone (

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

wt.%

CAS Registry #

Proprietary Aqueous Solution of Organic Surfactants (trade secret)

100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

COMMENTS:

Exposure limits for this product have not been established.

4. FIRST AID MEASURES

EYES:

Immediately °ush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water for 30 minutes. See a doctor at once. Launder contaminated clothing before reuse. Dispose of contaminated shoes.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking "nger down throat. After vomiting give milk (preferred) or water and consult physician.



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

INHALATION:

Remove to fresh air. See a doctor if e®ects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C Penskey-Martens, CC

Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when "ghting "res involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and harmful organic chemical fumes.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any Tre, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbant (dry sand, vermiculite, earth).

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required. Store away from oxidizers.

DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Strong Sulfur Color: Amber

pH: 2.5

Percent Volatile: Not Determined Vapor Pressure: Not Determined Vapor Density: Not Determined Boiling Point: Not Determined Freezing Point: 12°F -6°C

Solubility in Water: Completely Miscible in All Proportions

Speci⁻c Gravity: 1.010 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Not Determined

INCOMPATIBLE MATERIALS:

Oxidizing materials.



Page: 4 DATE PREPARED: 3/23/2005 MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. May be absorbed in toxic amounts.

Ingestion: Harmful if swallowed. Large amounts may cause illness or death.

LD(50) (rats, oral-acute) = 1.144 g/kg

Inhalation: Not Determined

TARGET ORGANS:

Not Determined

GENERAL COMMENTS:

Carcinogenicity not determined

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability:

5-day BOD - 0.037 p/p Total COD - 1.45 p/p TOC - 5,000 mg/L

Fish Toxicity:

LC(50) C. dubia (serial renewal - 24 hr) - 7.1 mg/L LC(50) P. promelas (serial renewal - 24 hr) - 22.1 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary land-II unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

COMMENTS:

Always follow ALL applicable federal, state and local regulations.



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Corrosion Inhibitor A300 { NOT REGULATED

Placards: None Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are de ned as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are either on the TSCA inventory or are exempt from the reporting requirements.

CANADA

WHMIS Classification: Class D, Division 2, Subdivision B, Poisonous & Infectious Material, Materials

causing other toxic effects, Toxic Material

16. OTHER INFORMATION

Approval date: 3/23/2005

REVISION SUMMARY

Revision #: 12

This MSDS replaces the February 7, 2005 MSDS. Any changes in information are as follows:

In Section 15

Added WHMIS Classification

NFPA CODES

Fire: 1

Health: 2

Reactivity: 0

HMIS CODES

Fire: 1

Health: 2

Reactivity: 0



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

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Hexion 2657 2657





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2657

Expiration Date 3/19/2010

Generator: Hexion Specialty Chemicals-Hope, AR

Address: 185 N Industrial Drive

Hope, AR 71801

Waste Information

Name of Waste: Nonhazardous wash water

TCEO Waste Code #: OUTS1141

Container Type:

Detailed Description of Process Generating Waste:

Resin manufacturing

Color: reddish

Odor: mild caustic odor

pH: 7-12

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



CES Environmental Services, Inc.

AVY

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene					
Company:	Hexion Speciatly				•
Address:	185 N Industrial D	rive			
City, State, Zip:	Hope, AR 71801	, _, _, , , , _ , _ , _ , _ , _ , _ , _			
Contact:	Donald English		Title:		n/Shipping Supervisor
Phone No:	870-722-7303		Fax No:	870-722-	5678
24/hr Phone:	870-722-7321		ne ne ne tie te a		
U.S. EPA I.D. No:	ARROUGE	002714		~ ~ " ~	
State I.D.	J0005	*	SIC Code:	286	+ 2821
SECTION 2: Billin	g Information - 🔲 S	Same as Above			
Company:	Hexion Speciatly Ch	emicals			
Address:	PO Box 1310				
City, State, Zip:	Columbus, Ohio 432	16			
Contact:		Title:			
Phone No:	866-524-8800	Fax N	0:		
SECTION 3: Gene	ral Description of the	e Waste			
	on Hazardous Wash W n of Process Generat	<u>ater</u> ing Waste: <u>Resin Man</u>	ıfacturing		
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	on	
Color: Redish	(Odor: Mild caustic odor	. પ		
Specific Gravity (wa	ater=1): <u>1.0-1.1</u>	Density:	lbs/gal		
Does this material c	ontain any total phe	nolic compounds? 🏻	Yes 🗌 No		
Does this material c	ontain any para sub	stituted phenolic comp	ounds? 🗌 Yes 🏻	⊠ No	
Layers:	Single-phase	☐ Multi-pha	se		
Container Type:	☐ Drum	☐ Tote	□ Truck		Other (explain)
Container Size:			6500 gal		
Frequency:	Weekly	☐ Monthly	☐ Quarterly		Yearly
Number of Units (co	ontainers): at least 2	per week	Other:		
Texas State Waste Code No:					
Proper U.S. DOT Si	hipping Name:	N . / -	. 1	h wit	On .
Class: AA	UN/N		edous Was PG:	n ww	RQ: YA

Flash Point	pH	Reactive Sulfides	Reactive Cya	nides	Solids
→288 >212	<u>7-12.0</u>	N/Amg/I	N/Amg/I		<u>2-5</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>N/A</u> mg/I	<u>N/A</u> mg/I	N/Amg/I	N/Amg/I	N/Amg	/1

SECTION 4: Physical and Chemical Data

COMPONIONESSIABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Formaldehyde	0-1.5%	
Phenol	0-0.5 % usually 0	
Resin Solids	2-5%	
Water	95-99%	
Methanol	<1.0%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. $\underline{N/A}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>N/A</u>
TCLP Volatiles:	N/A
TCLP Semi-Volatiles:	N/A
Reactivity:	N/A
Corrosivity:	N/A
Ignitability:	N/A

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

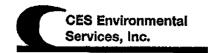
Authorized Signature: Foral Anglish	Date: <u>3/6/08</u>
Printed Name/Title: Donald English Production/ShippingSun	<u>pervisor</u>
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Colon Compliance Officer: Approved Rejected	
Approval Number: 2657	

	SECTION 10: Waste Receipt Classification Under 40 CFR 437
	Is this material a wastewater or wastewater sludge? YES NO
	If 'Yes', complete this section.
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
M	letals Subcategory: Subpart A 1) /
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>o</u>	ils Subcategory: Subpart B 1114
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>O</u>	rganics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
	Tank elean out from organia non natrolaum pources

(1)	II the w	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L. ium: 8.9 mg/L. : 4.9 mg/L 37.5 mg/L
(3)		raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	84/oak
	maximum Not to Exceed 25\$/99/109
	Yrans Jose/Hr 4 Foc.
2.	Contamination Limits (maximum limit before surcharges apply):
	>15 ppm pheno/ -> 2 d (gallon) >5000 TOC 3 d (gallon) >3% (Non Treated solids) 3 d / gallon
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	TOC, Phenol, pH, TSS
5.	Treatment and Handling Protocol:
	If Treatment Exceeds 189/99/104 Route to New Bark
	paute l' rempart
6.	Treated Wastewater Discharge Subcategory:
	bcategory A Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product Recovered/Recycled (if applicable):
NA
Management for Product Recovered/Recycled (if applicable);
NA



MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

DESCRIPTION: Water, PF wash

1. Chemical Product and Company Identification

DESCRIPTION:

Water, PF wash

PRODUCT CODE:

304207

PRODUCT TYPE: APPLICATION:

Wash Water Raw Material

Manufacturer/Supplier Information

MSDS prepared by: Hexion Specialty Chemicals, Inc. 155 West A Street, Bldg. A-1 Springfield, OR 97477

For Emergency Medical Assistance
Call Health & Safety Information Services
1-866-303-6949

For additional health and safety or regulatory information, call (614)225-4778.

2. Hazards Identification

2.1 Emergency Overview

Appearance

Odor

Amber liquid Slight phenolic

WARNING!

Harmful if inhaled.

Can cause burns to nose, throat and lungs.

Causes chemical burns to eyes. May be harmful if swallowed. Causes chemical burns to skin.

HMIS Rating

HEALTH =

3 (serious)

FLAMMABILITY =

0 (minimal)

REACTIVITY =

0 (minimal)

HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for the rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

2.2 Potential Health Effects

Immediate Hazards

Water, PF wash Version: 3 Current Issue: 13-SEP-2007

INGESTION:

May be harmful if swallowed.

If accidentally swallowed, burns or irritation to mucous membranes,

esophagus or GI tract can result.

INHALATION:

Harmful if inhaled.

Can cause burns to nose, throat and lungs.

SKIN:

Causes chemical burns. Causes chemical burns.

EYES:

Severe eye damage may cause blindness.

Delayed Hazards

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

Note: This product contains less than 0.1% free formaldehyde. Residual formaldehyde gas may be released from this product. The amount and level will depend on local conditions of use. Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen. See the OSHA formaldehyde standard 29 CFR 1910.1048 for further details. The International Agency for Research on Cancer (IARC) has concluded formaldehyde is carcinogenic to humans.

3. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

1310-73-2 Sodium Hydroxide

% by weight 1.0 - 5.0

Any applicable Canadian trade secret numbers will be listed in Section 15.2.

4. First Aid Measures

INGESTION:

If accidentally swallowed, dilute by drinking large quantities of water. If the individual is drowsy or unconscious, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for advice on whether to induce vomiting or for any other additional

treatment directions.

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a

physician.

SKIN:

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Call a physician. Wash clothing before

reuse.

EYES:

Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact

with entire surface of eyes and lids. Call a physician.

5. Fire Fighting Measures

Suitable Extinguishing Media: In case of fire, water should be used to keep fire-exposed containers cool.

Will not burn.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse vapors and flush spill area. Prevent runoff from entering waterways or sewers. Use appropriate Personal Protective Equipment (PPE).

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION:

Do not breathe vapor. Use with adequate ventilation.

SKIN:

Do not get on skin.

EYES:

Do not get in eyes.

7.2 Storage

8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

1310-73-2	Sodium Hydroxide		
ACGIH TLV	Ceiling	2 mg/m3	
OSHA PEL	8-hr TWA	2 mg/m3	
	Remanded	2 mg/m3	1989 PEL remanded, but in
	Ceiling	-	effect in some states
TLV (SE)	8-hr TWA	1 mg/m3	

8.2 Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.3 Personal Protection

Wear synthetic apron and boots if contact is likely. Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles and face shield if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and Chemical Properties

Appearance Amber liquid Odor Slight phenolic Odor threshold Not available pН Not available Freezing point Not available Boiling point, 760 mm Hg Not available Flash point Not applicable Evaporation rate Not available Lower explosion limit Not applicable Upper explosion limit Not applicable Vapor pressure Not available Vapor density Not available Specific gravity Approx. 1.062 Solubility in water Not available Octanol/water partition coefficient Not available Autoignition temperature Not applicable Viscosity Not available

10. Stability and Reactivity

Chemical Stability

Normally stable as defined in NFPA 704-12(4-3.1).

Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur.

11. Toxicological Information

See Section 3 Hazards Identification information.

1310-73-2 Sodium Hydroxide

LC50: Not available

LD50: Oral-rat= 500 mg/kg (Merck)

12. Ecological Information

Not determined

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

Water, PF wash Version: 3 Current Issue: 13-SEP-2007

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium

Hydroxide)

UN/NA number Class

3266 8

Packing group

RQ Ingredients

111

Label

Sodium Hydroxide

14.2 Canadian Transportation of Dangerous Goods (TDG)

Proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

UN number:

3266

Class

Class 8

Packing group

Ш 8

14.3 Other Regulations

ADR/RID

Label

Proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

UN Number

3266

Class

Class 8

Classification Code Packing group

C7 111

Hazard Identification No.

(Kemler Code)

8

• IMO/IMDG

Label

Label

Proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

UN Number

3266 Class 8

Class Packing group

Ш

8

• IATA (Passenger)

Proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

UN/ID number Class

3266 Class 8

Packing group

Ш

Label

8

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazards Communication Standard 29CFR1910.1200

Water, PF wash Version: 3 Current Issue: 13-SEP-2007

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Immediate health hazard

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Class C

Class D1B

Class D2B

Class E

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

15.3 State Regulations

California Proposition 65

In accordance with Proposition 65, the following information is provided:

WARNING: This product contains the following chemical known to the State of California to cause cancer:

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

Disclaimer

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

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HEXION SPECIALTY CHEMICALS, INC.

CERTIFICATE OF ANALYSIS

Customer #:

Customer Address:

Ship Date:

03/06/2008

DDN:

Attention:

QA DEPARTMENT

Customer Phone #:

Customer Fax #:

Truck #/ Railcar:

Tank Number:

Product Description:

11 PF Wash Water

SAP Product #:

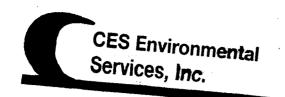
304207

Property	Value	Units	Specifica	ation Ranges
pH, 25C	9.90		6.00	11.50
Solids	1.83	%	1.00	4.00
Formaldehyde, Free	0.45	%	0.10	0.50
Phenol, Free	0.00	%	0.00	0.50
Methanol	0.12	%	0.00	0.30

Edward Sisson
Quality Assurance

SHIPPED FROM: Hexion Specialty Chemicals, Inc. 185 N. Industrial Dr. Hope, AR 71801 Phone: 870-722-5100

Port of Houston 2658 2658



Waste Pre-Acco-

ce/Approval Letter

Date 3/13/2008;

Dear Roxana r rera

Thank you for and/or recruing needs. The following waste stream has been approved at our facility in Houst A. TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2658

Expiration Date 3/19/2010

Generator: Port of Houston Authority 1515 East Barours Cut Blvd

Address: 1515 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Used oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: brown/black

Odor: oil like

pH: 7-10

Physical State:

Incompatibilities: oxidizers, strong acids, bases

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene			• 1		
Company:	Port of Houston Author		ilnai)		
Address:	1515 East Barbours Cu	t Bolevard	<u> </u>		
City, State, Zip: Contact:	La Porte, Texas 77571		Title:		
Contact: Phone No:	Greg Dodson			2 670 2420	
24/hr Phone:	281.4705587 713.670.2400		_ Fax No:	3-670-2429	
U.S. EPA I.D. No:			_		
State I.D.			SIC Code:	4.0	
State L.D.	cesog no		_ SIC Code:	na	
SECTION 2: Billin	g Information – 🗌 Same	as Above			
Company:	Port of Houston Authority	, 			
Address:	Environ mental Affairs	111 East Loop North			
City, State, Zip:	Houston, Texas 77029				
Contact:	Roxana Herrera	Title:			
Phone No:	713.6702814	Fax No:	713.670.2427		
Name of Waste: Us					
Detailed Description	of Process Generating V	Vaste: Equipment fluid	<u>changes</u>		
Physical State:	Liquid □ Solid □	Sludge [Filter Cake [Powder Combination		
Color: brown/black	Odor	oil like			
Specific Gravity (wa	ter=1): <u>.80-1.0</u>	Density: 8 lbs/gal			
Does this material co	ontain any total phenolic	compounds? 🗌 Yes	⊠ No		
Does this material co	ontain any para substitut	ed phenolic compound	ls? 🗌 Yes 🛮 🖾 No		
Layers:	⊠ Single-phase	Multi-phase			
Container Type:	Drum	Tote 🖂		Other (explain)	
Container Size:			<u>500 gal</u>		
Frequency:	☐ Weekly ☐	Monthly 🖂	Quarterly	☐ Yearly	
Texas State Waste Code No: NA-Recyclable Material					
Proper U.S. DOT Sh	ipping Name:	Non-RCRA/Non-DO	Γ regulated Material		
Class: NA	UN/NA:	NA	PG: NA	RQ: NA	

Flash Point >200 F	pH 7-10	Reactive Sulfides Omg/I	Reactive Cy Omg/l	yanides	Solids <2%
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>>1500</u> mg/l	>1500mg/l	<u> 0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

	COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water		0-10	%
Oil .		90-100	%
			†

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Chlor-D-Tect upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics	, listed below,	WAS NOT	PERFORMED	based upon	the following
generator knowledge:					

TCLP Metals:	<u>X</u>
TCLP Volatiles:	$\underline{\mathbf{x}}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

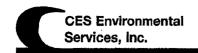
tested are representative of all materials described by this document.	
_	Date: 3/19/08
Printed Name/Title: Roxana Herrers, Rosvan Coordinator	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lower Approved Rejected	·
Approval Number: 2568	
2	

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
	\boxtimes	Oils Subcategory
	П	Organics Subcategory

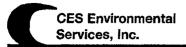
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

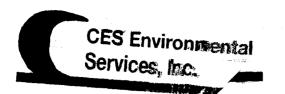
1.	Base Pricing (including freight):
	Pay 30 cents/gallon net oil, Charge 25 cents per gallon net water Transportation \$70.00 hour plus fuel surcharge
2.	Contamination Limits (maximum limit before surcharges apply):
	chlored-let text
3.	Surcharge Pricing:
	NA
ا.	Special Testing Requirements:
	test water phase for pH, TSS, TOC, and phenols
i .	Treatment and Handling Protocol:
	Black Oil Management
<u></u>	Treated Wastewater Discharge Subcategory:
٠. آ	Treated wastewater Discharge Subtategory.
	☐ Subcategory A ☐ Subcategory C ☐ Subcategory C
_	



PROCESS FACILITY INFORMATION (CES USE ONLY!!

Tests for Product Recovered/Recycled (if applicable): Chlor-D-Tect, flash point					
	duct Recovered	Recycled (if applicable):			
black oil					
	·				
			·		
			,		

Calpine 2659 2659



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pr Acceptance/Approval Letter

Date 3/19/200°

Dear , ae Miller

Than you for choosing CES Environmental Services, Inc. for you waste disposal addor recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2659

Expiration Date 3/19/2010

Generator: Calpine Baytown Energy Center

Address: 8605 FM 1405

Baytown, TX 77520

Waste Information

Name of Waste: Ceramic (Kaaowool) insulation

TCEO Waste Code #: 00079992

Container Type:

vac box (partially full)

Detailed Description of Process Generating Waste:

Removal of insulation from inside of gas turbine engines

Color: tan

Odor: none

pH: na

Physical State:

Incompatibilities: na

Safety Related Data/Special Handling:

na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. SECTION 2: Billing Information Calpine Baytown Energy Center Company: 8605 FM 1405 8605 FM 1405 Address: City, State, Zip: Baytown TX 77520 Contact: Title: Rick Damon Phone No: (281) 303-4200 Fax: (281) 303-4299 SECTION 3: General Description of the Waste Name of Waste: Ceramic (Kaaowool) Insulation Detailed Description of the Process Generating Waste: Removal of insulation from inside of gas turbine engines Physical State: **₩** Liquid **Sludge** Powder El Fliter Cake Combination Color: Tan Odor: None Specific Gravity (Water=1): Density: lbs / gal Does this material contain any total phenolic compounds? ☐ No Does this material contain any para substituted phenolic compounds? Yes ™ No Layers: Single-Phas Multi-Phase Container Type: Drum Tote (explain) Vac Box (partially full) 13 12 Truck Container Size: Number Of Units: Texas State Waste Code No: 00079992 Non-Dor Royalated Nater NUN-RCRA Proper U.S. State Waste Code No:

PG:

Class:

NA

UN/NA:

NA

RQ:

Rick Damon / HSE Maraca

Authorized Signature:

Printed Name / Title:

3/18/08

Date:

3

03/17/00 12:30 FAX 4256404998	SWC BILLI	NG DEPT		₩ 005
MAR-17-2008 15:10 CES	E ENVIROMENTAL		713 7480 664	P.005
Still bottoms	•		_	
Byproduct waste glycologic	V. Taranta	Funcion and any		16-19-1
Wastewater from paint washes				
Wastewater from adhesive and/or	epoxies formulation	n e	STATE OF THE STATE	· 5/1
Wastewater from organic chemical	product operations			
Tank clean-out from organic, non-p	petroleum sources		· -=	of A comp
	. 1 7 27 2222		<u> </u>	
•••				
(1) If the waste contains oil and grease at	tor in excess of 100 ma/L th	e waste should be classi	fied in the oils subcat	ionan/
•				
(2) If the waste contains oil and grease fe excess of the values listed below, the			l below in concentrati	one in
Cadmium: 0.2 mg/l.				
Chromium: 8.9 mg/L				
Copper: 4.9 mg/L	=			
Nickel: 37.5 mg/L				,
(3) If the waste contains oil and grease le				m, copper.
or nickel above any of the values liste	d above, the waste should be	classified in the organic	s subcategory.	
☐ Oils Subcatego				
☐ Organics Subcategory				

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAR-17-2008 15:10 CES ENVIROMENTAL

03/14/2008 15:45

2814764406

MES

7137488664 P.006 PAGE WI/W4

Mercury Environmental Services, Inc.

6913 HWY 225, Dear Park, TX 99536 Pigne (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840

Baytown, TX 77521

Attn: Rick Damon

- CERTIFICATE OF RESULTS -

MES Lab#:

8030264

Client Sample ID: Extended ID:

Insulation (HRSG) PO #MX20026305

Sample Collect Date: 3/8/2008 @ 8:00:00 AM

Sample Receipt Date: 3/10/2008 @ 10:55:00 AM

Sample Type:

Phone: (281) 303-4216

(201) 303-4299

Grab

Test Group / Method					
Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL		Result	Units	Analyst TFR Date / Time
C6 - C12 Hydracerbons	4		14	mg/kg	3/11/2008 / 7:54 AM
>C12 - C28 Hydrocarbons	8		< 8	mg/kg	3/11/2008 / 7:54 AM
>C28 - C36 Hydrocarbons	â		< B	mg/kg	3/11/2008 / 7:54 AM
Total TPH	20		< 20	mg/kg	3/11/2008 / 7:54 AM
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Antimony	0.032	1	< 0.032	mg/L	3/12/2008 / 12:01 AN
Arsenic	0,014	5	0.039	mg/L	3/12/2008 / 12:01 AN
Barium	0.0005	100	0.129	mg/L	3/12/2008 / 12:01 AN
Beryllium	0,0005	0.08	< 0.0005	mg/L	3/12/2008 / 12:01 AN
Cadmium	0.002	1	< 0.002	mg/L	3/12/2008 / 12:01 AN
Chromium	0.002	5	0.020	πig/L	3/12/2008 / 12:01 AM
Lead	0.005	5	0.010	mg/L	3/12/2005 / 12:01 AN
Nickel	0.003	70	0.094	mg/L	3/12/2008 / 12:01 AN
Selenium	0,024	1	< 0.024	mg/L	3/12/2008 / 12:01 AN
Silver	0.002	8	< 0.002	mg/L.	3/12/2008 / 12:01 AN
TCLP Mercury Method: SW-846 7470A	MDL,	RL_	Recult	Units	Analyst TRAHM Date / Time
Mercury	0.0002	0,2	< 0.0002	mg/L	3/11/2008 / 10:27 PA
TCLP Benzene	MDI	5 01	5 3 - 24/8	11-10-	Analyst: TFR

MDL

0.005

RL

0.5

Result

< 0.005

Units

mg/L

Report Date: 13-Mar-08

Method: SW 849 8260B

Benzene

Page 1 of 2

Date / Time

3/11/2008 / 2:08 AM

SWC BILLING DEPT

MAR-17-2008 15:11

CES ENVIROMENTAL

23/14/2009 15:45

2814764406

MES

7137498664 P.007 PAGE 82/84

· CERTIFICATE OF RESULTS -

MES Labr:

6030264

Client Sample ID: Extended ID:

Insulation (HRSG) PO #MX20026305

Sample Collect Date: 3/8/2008 @ 8:00:00 AM

Sample Type:

Grab

Sample Receipt Date: 3/10/2006 @ 10:55:00 AM

Flags: HI Exceeds "High Limit" L: Below "Low Limit" RL-regulatory limit

Holland D. Gilmore, Laboratory Director

Thursday, March 19, 2008

Date

Report Date: 13-Mar-08

Page 2 of 2

☑ 008

MAR-17-2008 15:11 03/14/2008 15:45

CES ENVIROMENTAL

2814764405

MES

7137498664 P.009 PAGE US/UA

8030264

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane Toluene-d8	91.5 9 9. 6
4-Bramofluorobenzene	100.1

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	msd %rec	
C6-C12 C12-C28		< 4 <8	92,4 101.6	108.1 102.1	87.6 102.8	

Key to QA Abbreviations

MS=Matrix Spike RPD=Relative Percent Deviation LCS=Laboratory Control Standard CCB=Continuing Calibration Blank MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate MB=Method Blank CCV=Continuing Calibration Verification %Rec=Percent Recovery RL=Regulatory Limit

Signature:

Holland D. Gilmore / Laboratory Director

March 13, 2008

Mercury Environmental Services, Inc. -

03/17/08 12:30 FAX 4256404998

Ø 009 Page 84/84

7137498664

SWC BILLING DEPT

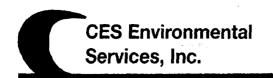
CES ENVIROMENTAL
2814764486

MAR-17-2008 15:11 03/14/2008 16:45

	COMPANY NAME: (BILL TO:) Calping	Baytom E	sury	Centu			M	ES)	- CHA	IŅ QĒ	CUS	TODY	!
	COMPANY ADDRESS: 8COS FA	1 1405					Merc	ury l	nviror	ment	al Se	rvice	25	Fex (281)-476-4406
Ē	city Baytown.	ST	ATE TX	ZIP _	7752	<u> </u>	69131	fwy. 22.	5 • Daer	Park, TX	7759	8		
	CONTACT PERSON'S NAME: ALL	amon						AHANE	TERS FOR	AMALY	31S	, 	1	REMARKS
-	CONTACT PERSON'S PHONE: 281-30	7-4216	FAX #:	281-703	-429	9 4	> /	/ ५/	\$/	/ /	/ /	/ /	🐉	TURNARDUND RIME
	WILLIA PODIECT MO: VALLE PO			OJECY NAME				= 45/	Ŋ/	/ /	_ /		Ž / 6	Kush
E	MX2003 G3					/ /		Tell help	4 / /	' /		/8		BETECTION LIMITS GPENAL LIMITS REQUISED
	PROJECT ACCRESS:					\neg /	/i	3/3	1 /					Yes No
	YOUR SAMPLE DESCRIPTION	GRAE/COMP.	DATE	TIME	ITAM	HIX		1/2	((- ((NUMBER OF P.	PRESERVATIONS	Pipose circh opp, il Yes, pesse destiba below
	Insulation (HASG)	Gnb-	3/8/08	08:00		1	1		i					or include separate sheet dataling rogginangsis.
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	RELIGION DIOMOND	10/08 10:5	ABCENED (Blombas)	_		Marting (1991)	LO BY:			DAT L		TALLE	PEC	RIVED AV: Numi
	4	HIPPED EV:		(COU					alle	WILL.	Lua	mo	nd	71/08 10:55
8	Sample Remeinder Disposel Return Sample Remeinder To Clizat Via					Oi Request	Leb To D) sengel	Agmaz BA IC	Remaind	erb	10	'ale)	-
	Foun & MES - OCA!													

Shawor down

7 E 4.09 8-4.09 LAS



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/19/2008

Dear Angela Molis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2660

Expiration Date 3/19/2010

Generator: Shawcor Pipe Protection

Address: 4501 Ki

4501 Knapp Road

Pearland, TX 77581

Waste Information

Name of Waste: Nonhazardous waste unused Hyperlast 7980407

TCEQ Waste Code #: 00552191

Container Type:

Detailed Description of Process Generating Waste:

Unused out of date product in drums

Color: yellow

Odor: none

pH: 4-10

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

Leve D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

F.000

Mor



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information				
Company:	Shawcor Pipe Pro	ection LLC			
Address:	4501 Knapp Rd				
City, State, Zip:	Pearland, TX 7758	31			
Contact:	Angela Molis		Title:		
Phone No:	281-485-8321		Fax No:	281-485-2657	•
24/hr Phone:	713-922-5022				3
U.S. EPA I.D. No:	TXT490013562			٠.٨	
State I.D.	32925		SIC Code:	NA_	
SECTION 2: Billin	g Information – 🔯 :	Same as Above			
Company:					
Address:	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		•
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			-
SECTION 3: Gene	ral Description of th	e Waste			
		used Hyperlast 7980407 ing Waste: Unused out of Sludge Filter Cake	date product in d Powder Combination	•	
Color: <u>vellow</u>	•	Odor: None			
Specific Gravity (wa	ater=1): <u>.72</u>	Density: 6-7 lbs/ga	ત	•	,
Does this material c	ontain any total phe	nolic compounds? 🔲 Yes	s 🛛 No		
Does this material c	ontain any para sub	stituted phenolic compour	nds? 🗌 Yes 🏻	⊠ No	
Layers:	Single-phase	☐ Multi-phase			
Container Type:	⊠ Drum	☐ Tote □	∑ Truck	Other (ex	olain)
Container Size:	<u>55 G</u>			-	,
Frequency:	☐ Weekly	☐ Monthly □	Quarterly	Yearly	
Number of Units (co Texas State Waste C	ontainers): <u>1-50</u>	Other:	<u> </u>		•
Proper U.S. DOT SI		Non-RCRA, Non Do	OT Demileted W	acte 1 4 Protonadial	
Class: Na					
LIZISNI INZ	IIN/N	A. Na	PC· · No	D C	No No

MAR-10-2008 16:20	CES I	ENVIROMENTAL.			7137400664	P.009
	•H i-10	Reactive Sulfides Namg/l	Reac Nam	tive Cyanides	Solids	619
	TOC	Zinc	Copper			
	lamg/I	Omg/l	Omg/l	I	mg/l	
SECTION 4: Physical	and Chemical D			Č01G9i	te: Noon	Unis
The was	te consists of the	following materials		Ranges are	acceptable	or %
1,4 Butanediol	·			100		%
				-		
	· · · · · · · · · · · · · · · · · · ·					
						+
SECTION 5: Safety Real of the handling of this w		e use of special protectiv	e equipment	, please explair	1.	
Level D PPE	-	• •	1			
SECTION 6: Attached	Supporting Do	<u>cuments</u>				
List all documents, note MSDS	es, data, and/or a	analysis attached to this f	form as part	of the waste ap	proval packa	ge.
SECTION 7: Incompa						
Please list all incompati None	bilities (if any):					
SECTION 8: Generato	r's Knowledge l	<u>Documentation</u>				
Laboratory analysis of generator knowledge:	the hazardous w	vaste characteristics, liste	ed below, W	AS NOT PERF	ORMED base	ed upon the followi
TCLP Metals:	X					
TCLP Volatiles:	<u>X</u> X X					
TCLP Semi-Volatiles:						
Reactivity:	X X X					
Corrosivity: Ignitability:	X					
iguiaviity,	Δ					
SECTION 9: Generato	r's Certification	<u>[</u>				
attached description is comissions of composition	complete and accomplete accomplete	d on generator knowle curate to the best of my to tand that all known or subscribed by this document.	knowledge a uspected haza	nd ability to de	etermine that	no deliberate or wi
Authorized Signature	Wila	molis	·	Date: !	03/11/08	
Printed Name/Title:	HSEC	cordinax	1012			
CES USE ONLY (DO NOT V	VRITE IN THIS SP.	ACE)				
Compliance Officer:	ben 8T	Lyde				
Date: 3-19-08	proving 9	proved Rejected				
Approval Number:	2660					
					 _	

MAR-10-2008 16:20 CES ENVIROMENTAL (13/400004 SECTION 10: Waste Receipt Classification Under 40 CFR 437	1
Is this material a wastewater or wastewater sludge? YES NO	
If 'Yes', complete this section.	
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PA	1GE.
Metals Subcategory: Subpart A	
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	
Oils Subcategory: Subpart B	
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
Organics Subcategory: Subpart C	
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

MAR-10-2008 1	6:2	n.
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P.UII

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	Oils Subcategory

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$65/dm \$69/hr plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	Na
5.	Treatment and Handling Protocol:
!	Process to Base oils.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Na
_	
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable): Na
8.	
8.	
8.	
8.	



SAFETY DATA SHEET HYPERLAST 7980407

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME

HYPERLAST 7980407

PRODUCT NO.

7980407

SUPPLIER

Hyperlast Limited,

Station Road, Birch Vale,

High Peak, Derbyshire, SK22 1BR

Great Britain +44(0)1663-746518

+44(0)1663-742737 +44(0)1663-746605

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1,4-BUTANEDIOL		110-63-4	10-30%	Xn;R22.

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove affected person from source of contamination. Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Collect with absorbent, non-combustible material into suitable containers. Do not contaminate water sources or sewer.

HYPERLAST 7980407

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT





ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Liquid

COLOUR

Yellow

SQLUBILITY

Slightly soluble in water.

BOILING POINT (°C)

> 200 760 mm Hg

MELTING POINT (°C)

< 15

RELATIVE DENSITY

0.72 @ 25 °C

FLASH POINT (°C)

> 180 CC (Closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

This product has low toxicity. Only large volumes may have adverse impact on human health.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

HYPERLAST 7980407

ADR CLASS

Not classified for transportation.

15 REGULATORY INFORMATION

RISK PHRASES

NC

Not classified.

SAFETY PHRASES

S24/25

Avoid contact with skin and eyes.

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

P13

Safety data sheet available for professional user on request.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE

02/11/2005

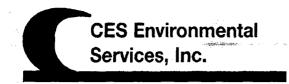
REV. NO./REPL. SDS GENERATED 1

RISK PHRASES IN FULL

R22

Harmful if swallowed.

Annow Recycling 2638 2638





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2638

Expiration Date 3/7/2010

Generator: Arrow Recycling Address: 7311 Decker Dr.

Baytown, TX

Waste Information

Name of Waste: Dirt contaminated with hydrocarbon

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Housekeeping - small spill cleanup

Color: dark

Odor: none

pH: 8-10

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

attn: Oan 4pgp

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048

U.S. EPA ID No: TXD008950461

ISWR No: 30900



SECTION 1: Gener Company: Address: City, State, Zip: Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D.	ator Information 1311 311 311 311 311 311 311	ecter Dr. 3037	Title: Fax No: SJC Code:	
SECTION 2: Billing Company: Address: City, State, Zip: Contact: Phone No:	My Servi	ame as Above C E S C Fax No:	0780 18325 930 18325	
SECTION 3: Gener	al Description of the	Waste	,	
			relocation . expire small	spill cleanupi
Physical State:	Liquid Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	
Color Dark,	O	odor: _ yve		
Specific Gravity (was	ter=1):/ /	Density: 10-lbs/gal		
Layers:	¹⁻² Single-phase	☐ Multi-phase		
Container Type: Container Size:	Drum 5550	Tote	Truck	Other (explain)
Frequency: Number of Units (co Texas State Waste C		☐ Monthly ☐ Other:	Quarterly	X Yearly
Proper U.S. DOT Sh	ipping Name: ——	NOTREC	wated	
Class:	UN/NA		PG:	RQ:
Flash Point	8-10.0	Reactive Sulfides	Reactive Cyanide	Solids 100
Oil&Grease	TOC	2 Zinc	Copper	Nickel
mg/71500	mg/1 / V3(20 mg/1	mg/l	mg/l

SECTION 4: Physical and Chemical Data

(COMPONENTS FABRE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Hydracarbal	-90-95	0%
		% % %

SE	CTIC	N	5:	Safety	Related	Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Rease list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	4
TCLP Volatiles:	
TCLP Semi-Volatiles:	
Reactivity:	
Corrosivity:	, _
Ignitability:	

Authorized Signature:

SECTION 9: Generator's Certification

The information contained herein is based on \square generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

___ Date: 3/7/08

Minted Manie Title.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Portunt have a	Additional Information:
Date: 3-7-08 Approved Rejected	
Approval Number: 2638	

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? \(\begin{align*} \text{YES} \end{align*} If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutams listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory .

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 (281)292-5277 FAX: (281)292-2481

February 14, 2008

ZAC MCKAUGHAN
CKG SERVICES
10707 HONEA EGYPT RD.
MONTGOMERY, TX 77316

REFERENCE:

Dear ZAC MCKAUGHAN:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

		-	- 4	è
ARROW 1	1		<i>i</i> !	ı
. IARKOW I.	1			ı
				è

All the holding times were met for the tests performed on these samples. Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting A4 SCIENTIFIC for your laboratory needs on this project. If you have any questions concerning these results, please feel free to contact me at any time.

不知,但一次的一个一次,是不会的一个一个一个人,就是是一个一个人,但不是的人,因此一个人,我们就要把一个一个的时候可以不知的,我们就是这个的,我们就是这个人,

We look forward to working with you on future projects.

Sincerely,

Reddy Pakanati

Laboratory Manager



1544 Sawdust Road, Suite 505 The Woodlands, IX 77380 (281) 292-5277 (F=x): (281) 292-2481

ANALYTICAL REPORT

CLIENT PROJECT...: ARROW DIRT CLIENT PROJECT NUMBER...:

Prepared For:

CKG SERVICES 10707 HONEA EGYPT RD. MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

1963年1963年,1963年1963年,在1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年,1963年

Date: 02/14/2008

LAB EPISODE NUMBER: 8802

Date Received....: 02/07/2008

Lab Project ID....: 8802

Reddy Pakanati Laboratory Manager

(281) 292-5277

pakanati@a4scientific.com

PAGE: 09901

EPAHO108001893

Chain of Custody Record

CoC No. 880.2

1544 Saydust Road, Suite 505 · The Woodlands, TX 77390 (281) 292-5277 · FAX: (281) 292-2481 · www.adscientific.com

Distribution: Original accompanies shipment, Copy to coordinate and field dies

A4 Scientific

Cilent Name / Address: Zuc Melley Send Report to: CRG Siviains LCC

Project Name

ARROW - Dirt Phone Number: 281-11/1-4829 ForLab Use Only Samplers (Signet), 19) Number of Cortainers Lab Samole ID Client Remarks Ctient Samole ID ARROW -01 Date / Time Received by (Signature) Date/Time Relinquished by (Signature) Received for Laboratory by (Signature) Date/Time 02/00/07/9140 Method of Shipment:

7

LASERJET



Sample Log-In Report

1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Logical By: JS

Chant Name: CKG SERVICES

Client Protect Name: ARROW DIRT

CHant Project #:

..... 2-.

P.O. Na.:

Courter/Nau

Lah Project 10: 8802

Date Located 92/87/08

Date Henstwale 02/07/08

Time Henelyech 69:40

Heport Date: 02/07/2006 11:26:44

Sand Report To...

ZAC MCKAUGHAN

10707 HONEA EGYPT RD.

MONTGOMERY

TX

77316

SD@

CASE

Sample ID Client Sample ID

8802,001 ARROW 1

Sampled Capringly No.

02/06/08 09:30 8802

Tests Required

Date

Remarks

BTEX-8260 02/12/08

MET TCLP RCRAMETALS+Be+N1+Sb 02/12/08

TP#1005 02/12/08

Instructions To Lab:

でくらい、はらららい J. Schwar 45/08

Cifend Approval



1544 Sawdust Road, Sulte 505 The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

CLIENT NAME PROJECT NAME	CKG SERVICES : ARROW DIRT	CLIENT SAMPLE ID : ARROW 1 LAB SAMPLE ID : 8002.001
PROJECT NUMBER	· man	METHOD REFERENCE : INRCC-1005
DATE SAMPLED	= 02/ 06/2008	DATE RECEIVED : 02/07/2008
SAMPLE MATRIX	: SOIL	PRINTED ON : 02/14/2008 15:16

: 4	AYALYST	: HC
: D2/13/09	DATE PREPPED	: 02/1 3/08
: 50	EXTRACT VOLUME	: 10 ML
: B14225	instrument id	: B-5090
:10 G	TIME ANALYZED	: 14:00
	: 50 : B14225	: 02/13/08 DATE PREPPED : 50 EXTRACT VOLUME : B14225 INSTRUMENT ID

PARAMETER	OUANTITATION	TIMIT	RESU	.TS	QUALIFIER
TPH-(>nC12-nC28)	1040	MG/KG	92500	MG/KG	,
TPH-(>nC28-nC35)	1040	mg/Rg	МD	MG/KG	
TPH- (nC6-nC12)	1040	MG/RG	ND	MG/KG	

QUALITY CONTRO	L DATA		Will by Long (Co.P.)
SURROGATE COMPOUND SPIKE	ADDED	OG RECOVERY LIMITS	*RECOVERY
o-Terphenyl	260 MG/KG	70 - 130	67
1-Chloroctane	260 MG/KG	70 - 130	108

PAGE: BRREE!



The Woodlands, TX 77380 1544 Sawdust Road, Suite 505

Page 1 of 1

LABORATORY REPORT

TCLP METALS

CLIENT NAME

: CKG SERVICES

CLIENT SAMPLE ID : ARROW 1

PROJECT NAME

LAB SAMPLE ID : 0902.001

PROJECT NUMBER :

: ARROW DIRT

DATE RECEIVED

: 02/07/2008 : 02/14/2008

DATE SAMPLED : 02/06/2008

PRINTED ON

15:16

: SOIL SAMPLE MATRIX

& MOISTURE

			DATE	DILO-	QUANTITATION		ANA-
ANALYTE	METHOD	PREPARED	ANALYZED	TION	LIMIT	RESULT. Q	LYST
Antimony, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.06 MG/L	ND MG/L	35
Arsenic, TCLP	3W846-6010B	02/13/08	02/13/08	1	C.005 MG/L	0.007 MG/L	5\$
Barium, TCLP	SW846-6010B	02/13/08	02/13/08	1	O_O1 MG/L	0.993 MG/L	SS
Beryllium, TCLP	SW846-6010B	02/13/08	02/13/08	1	C.005 MG/L	ND MG/L	35
Cadmium, TCLP	SW846-6010B	02/13/08	02/13/0B	1	0.005 MG/L	ND MG/L	58
Chromium, TCLP	EO109-348W2	80/E1/20	02/13/08	1	0.01 MG/L	ND MG/L	22
Lead, TCLP	SW846-6010B	02/13/08	02/13/08	1	C.003 MG/L	0.005 MG/L	93
Mercury, TCLP	SW846~7470A	02/13/08	02/13/08	1	0.0002 MG/L	ND MG/L	83
Nickel, TCLP	3₩84€-6010B	02/13/08	02/13/08	1	0.04 MG/L	ND MG/L	99
Selenium, TCLP	SW846-6010B	02/13/08	02/13/09	1	0.005 MG/L	0.014 MG/L	55
Silver, TCLF	SW846-6010B	02/13/08	02/13/08	1	0.01 MG/L	nd ng/l	SS

PAGE: 00005



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

CLIENT NAME : CKG SERVICES CLIENT SAMPLE ID : ARROW 1

FROJECT NAME : ARROW DIRT LAB SAMPLE ID : 9802.001

FROJECT NUMBER : METHOD REFERENCE : SW846-82608

DATE SAMPLED : 02/06/2008 DATE RECEIVED : 02/07/2008

SAMPLE MATRIX : SOIL PRINTED ON : 02/14/2009 16:47

R MOISTURE : 4 ANALYST : DF

DATE ANALYZED : 02/09/2008 INSTRUMENT FILE : C2741.D

INSTRUMENT ID : C-8973 SAMPLE WEIGHT : 5-03 g

TIME ANALYZED : 14:12

PARAMETER HELLER HELLER	"QUANTITATION	LIMIT	REST	LTS initial	QUALIFIER.
Benzene	5.2	UG/KG	ND	UG/KG	
Ethylbenzepe	5.2	DG/KG	MP	UG/KG	
Toluene	5.7	UG/RG	MD	UG/KG	
xylene (total)	5.2	DG/KG	ND	DG/RG	

QUALITY CONTR	OL DATA		es asia di perimet
SURROGATE COMPOUND SPIN	É ADDED.	QC RECOVERY LIMIT	RECOVERY
1,2-Dichloroethane-64	51.8 UG/R	KG 52 - 149	86
4-Bromoflyorobenzene	51.0 UG/1	KG 61 - 150	B1
Dibromofluoromethane	31.8 UG/F	RG 65 - 150	81
Toluene-d8	51.8 UG/8	KG 65 - 150	91

PAGE: BB0065

QC RESULTS

Page: 20027



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Page 1 of 1

LABORATORY REPORT

	TOTAL PETROLEUM	HYDROCARBONS	
CLIENT NAME	.	CLIENT SAMPLE ID	: Prep Black
PROJECT NAME	:	LAB SAMPLE ID	: TPHB982
PROJECT NUMBER	1	METHOD REFERENCE	: TNRCC-1005
DATE SAMPLED		DATE RECEIVED	:
SAMPLE MATRIX	: SOLID	PRINTED ON	: 02/14/2008 15:16

* MOISTURE	···	ANALYST	; BC	
DATE ANALYZED	: 02/13/08	DATE PREPPED	: 02/13/03	-
DILUTION	: 1	EXTRACT VOLUME	: 10 ML	1
INSTRUMENT FILE	: B14222	instrument id	: B-5890	
SAMPLE SIZE	: 10 G	TIME ANALYZED	: 14:00	İ

PARAMETER	QUANTITATION	LIMIT	RESUI	TS :	QUALIFIER
TPH-(>nC12-nC28)	20.0	MG/KG	ND	MG/RG	
TPH~(>nC28-nC35)	20.0	MG/KG	. ND	MG/KĞ	
TPH- (DC6-DC12)	20.0	MG/KG	ND	MG/KG	

QUALITY CONTRO	L DATA		TABLE TO A STATE
STAROGATE COMPOUND SPIKE	ADDED	QC RECOVERY LIMITS	PRECOVERY
O-Terphenyl	250 MG/KG	70 - 130	9,2
1-Chlorooctane	250 MG/RG	70 - 130	96

PAGE: BB298



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

LCS/LCSD SUMMARY REPORT

PROJECT NUMBER: EAMPLE MATRIX SOLID NETHOD REFLERENCE : INRCC-1003 LAB CONTROL SAMPLE LAB CONTROL SAMPLE DUPLICATE LCS SAMPLE ID : TEHL982 CLIENT SAMPLE ID : DATE ANALYZED : 02/13/08 NETHOD REFLERENCE : INRCC-1003 LAB CONTROL SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYZED : DATE ANALYZED	ilient name	;	DATE RECEIVED
EAMPLE MATRIX SOLID LAB CONTROL SAMPLE LAB CONTROL SAMPLE DUPLICATS LCS SAMPLE ID TEHL982 CLIENT SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYZED : 02/13/08	PROJECT NAME	•	PRINTED ON ;02/24/2008 15:10
LAB CONTROL SAMPLE LCS SAMPLE ID TPH1982 CLIENT SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYZED : 02/13/08	roject number	;	_
DI SAMPLE DE CLIENT SAM	AMPLE MATRIX	; SOLID	METHOD REFERENCE . IMRCC-1003
CLIENT SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYZED :	LAB CONTROL SAME	<u> </u>	LAB CONTROL SAMPLE DUPLICATE
DATE ANALYZED : 02/13/08 DATE ANALYZED	CS SAMPLE ID	TPHL982	LCSD SAMPLE ID ;
•	Light sample id	:	CLIENT SAMPLE ID
INSTRUMENT FILE B14223 INSTRUMENT FILE	DATE ANALYZED	: 02/13/08	DATE ANALYZED
	INSTRUMENT FILE	(B14223	INSTRUMENT FILE
	PARAMETER	LCS LCBD LCB TRUE TRUE POC	IND FOUND RECOVERY RECOVERY RPD OC LIMITS

^{*} Indicate values outside of QC limits

TPH- (nC6-nC12)

RPD : 0 out of 0 outside limits Spike Recovery - 0 out of 2 outside limits

MG/KG

PAGE : 22228



The Woodlands, TX 77380 1544 Sawdust Road, Suite 505

Page 1 of 1

LABORATORY REPORT

CLIENT NAME : CLIENT

PROJECT NAME :

PROJECT NUMBER :

SAMPLE MATRIX : SOLID

CLIENT SAMPLE 1D : Prep Blank

LAB SAMPLE ID : MGBLK11

DATE RECEIVED :

Printed on % moisture : 02/14/2000

15:16

- Pritti in this is a line in the principle of the principle of an expression of the file of the file of the line is a line in the principle of the principle o		ALCA -
ANALYTE METHOD PARPARED ANALYZED TION LIMIT RESULT	o i	LYST
Mercury, TCLP SW846-7470A 02/13/08 02/13/09 1 0.0002 MG/L ND MG	/1	SS

PAGE: 00010



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

:02/14/2006

Page 1 of 1

15:16

80 - 120

LCS/LCSD SUMMARY REPORT

TCLP METALS

CLIENT NAME PROJECT NAME

SAMPLE MATRIX

PROJECT NUMBER

LAB CONTROL SAMPLE

LCS SAMPLE ID : NGLC91)

CLIENT ANNPLE ID .

COMPOUND

Mercury, TCLP

LCSD SAMPLE ID CLIENT SAMPLE ID :

DATE RECEIVED

PRINTED ON

LCSD LCS	LCSD - LCSD LCSD - LCSD	
TRUE FOUND	COUND RECOVERY RECOVERY RPD &C LIMITS	
VALUE VALUE	VALUE (9) 14) RPD LIMIT REC.	

LAS CONTROL SAMPLE DUPLICATE

метнор ::: REFERÉNCE :

5N846-7470A

0 out of 0 outside limits

Spike Recovery :

UNITS

MG/L

TRÚE

VALUE

to suo 0

PAGE: 82811

^{*} Indicate values outside of QC limits



The Woodlands, TX 77380 1544 Sawdust Road, Suite 505

Page 1 of 1

LABORATORY REPORT

TCLP METALS

CLIENT NAME

PROJECT NAME PROJECT NUMBER

DATE SAMPLED SAMPLE MATRIX

: SOLID

CLIENT SAMPLE ID : Prep Blenk : ICPBT1

LAB SAMPLE ID DATE RECEIVED

PRINTED ON

& MOISTURE

: 02/14/2008

15:16

ANALYTE	METHOD	1 12 4000 7 77	DATE ANALYZED	DII,U-	OUANTITATION LIMIT	result c	ANA- LYST
Antimony, TCLP	SW846-6010B	02/13/08	02/13/08	<u></u>	0.05 MG/L	ND MG/L	5\$
Arsenic, TCLF	SW846-6010B	02/13/08	02/13/08	1	0.005 MG/L	ND MG/L	22
Barium, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.01 MG/L	ND MG/L	88
Beryllium, TCLP	SW846-6010B	02/13/08	02/13/08	ı,	0.005 NG/L	ND MG/L	99
Cadmium, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.005 NG/L	ND MG/L	\$9
Chicmium, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.01 MG/L	ND MG/L	35
Lead, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.003 MG/L	ND MG/L	55
Nickel, TCLP	SW846-6010B	02/13/08	02/13/08	1	0.04 MG/L	ND MG/L	\$5
Selenium, TCLP	SW846-60108	02/13/08	02/13/08	1	0.005 MG/L	#D MG/L	88
Silver, TCLP	9W846~6010B	02/13/08	02/13/08	1	0.01 MG/L	ND MG/L	SS



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Page 1 of 1

LCS/LCSD SUMMARY REPORT

TCLP METALS

CLIENT NAME

PROJECT NAME

PROJECT MUMBER

DATE RECEIVED

PRINTED ON

:02/14/2008

15:16

Sample Matrix

SOLID

LAB CONTROL SAMPLE

LCS SAMPLE ID : 1CPLT1

CLIENT SAMPLE ID :

LAB CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID ;

CLIENT SAMPLE ID :

	METROD	ics True	LCSD LCS TRUE , FOUND	LCS LCS FOUND RECOVERY RECO	D. Oga	QC LINGTS
CONFOUND	Peference un	ITS VALUE	VALUE VALUE	VALUE: (%) (%)	PPD LIMIT	, REC.
Antimony, TCLF	SN346-8010B MG	/L 1.25	1.16	93	30	80 - 120
Arsenic, TCLP	6W346-6010B NG	/L 0.250	0.239	96	20	90 - 120
Berlum, TCLP	5W946-E010B MG	/L 5.00	4.81	96	20	80 - 120
Beryllium, TCLP	SW846-6010B NG.	/L 0.125	0.113	90	25	80 - 120
Cadmium, TCLP	8W846-6010B MG.	/T 0.125	0.116	93	20	80 - 120
Chromium, TCLP	3W845-6010B MG	/L 0.500 -	0.483	97	20	80 - 120
Lead, TCLF	58846-5010B MG	/L 0.250 ~	0.244	98	20	80 - 120
Nickel, 7CLP	SW846-6010B MG.	/L 1.25	1.14	91	20	80 - 120
Selenium, TCLP	SW846-5010B MG	/L 0.250 -	0.239	96	20	80 ~ 120
\$11ver, TCLP	SW846-6010B MC.	/L 0.625 _	0.615	98	20	80 - 120

^{*} Indicate values outside of QC limits

D: O out of

0 out of 0 outside limits

Spike Recovery : 0 out

0 out of 10 outside limits

PAGE: 00013

Silver, TCLP

SW846-6010B



The Woodlands, TX 77380 1544 Sawdust Road, Suite 505

ND MG/L

55

Page 1 of 1

LABORATORY REPORT

CLIENT NAME : CLIENT SAMPLE ID : Prep Blank PROJECT NAME : LAB SAMPLE ID : TCLPBLK0212

02/13/08 02/13/08

PROJECT NUMBER : DATE RECEIVED :

DATE DILO-QUANTITATION ANA~ METHOD PREPARED ANALYZED TION LIMIT RESULT LYST Antimony, TCLP 02/13/09 02/13/08 SW846-6010B 0.06 MG/L ND MG/L SS ī Arsenic, TCLP SW846-6010B 02/13/08 02/13/08 0.005 MG/L ND MG/1 85 Barium, TCLP SW846-6010B 02/13/08 02/13/08 ī 0.01 MG/L ND MG/L 35 Beryllium, TCLF SW846-6010B 02/13/08 02/13/08 1 0.005 MG/L ND MG/L 33 Cadmium, TCLP 5W846-6010B 02/13/08 02/13/08 2 0.005 MG/L ND MG/2 59 02/13/08 02/13/08 0.01 MG/L ND MG/L Chromium, TCLP SW846-6010B 5.5 1 ND MG/~ Load, TCLP SW846-6010B 02/13/08 02/13/08 0.003 MG/L 88 1 Mexcury, TCLR \$#846-7470A 02/13/08 02/13/08 0.0002 MG/L ND MG/L SS 1 Nickel, TCLP SW846~6010B 02/13/08 02/13/08 0.04 MG/L ND MG/L 88 1 Selenium, TCLP EW846-6010B 02/13/08 02/13/08 0.005 MG/L ND MG/L 88 ĩ

0.01 MG/L

Page: **90**214



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

CLIENT NAME : CLIENT SAMPLE ID : Prep Blank
PROJECT NAME : LAB SAMPLE ID : VBLK72
PROJECT NUMBER : METHOD REFERENCE : SW846-8260B
DATE SAMPLED : DATE RECEIVED :
SAMPLE MATRIX : SOLID PRINTED ON : 02/08/2008 15:46

A MOISTORE : ANALYST : DP

DATE ANALYZED : 02/08/2008 INSTRUMENT FILE : C2736.D

INSTRUMENT ID : C-5973 SAMPLE WEIGHT : 5 g

TIME ANALYZED : 11:22

PARAMETER	OLYNTITATION	LIMIT	RESO	TS QUALIFIER
Benzene	5.0	UG/KG	αM	DG/KG
Ethylbenzene	5.0	UG/KG	DM	UG/KG
Toluene	0.8	UG/RG	ND.	VG/KG
Xylene (total)	5.0	UG/KG	DM	UG/KG

QUALITY CONTROL			
SURROGATE COMPOUND SPIKE	ADDED	GC RECOVERY LIMITS	PRECOVERY
1,2-Dichloroethane-d4	50 0G/RG	52 - 149	71
4-Bromofluorobenzene	50 DG/KG	61 - 150	28
Dibromofluoromethane	50 UG/KG	65 - 150	73
Toluene-de	50 VG/RG	65 - 150	61

PAGE: 00015

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1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

LCS/LCSD SUMMARY REPORT

VOLATILES BY GC/MS

DATE RECEIVED PRINTED ON

D2/08/2008

15:46

SAMPLE MATRIX ·SOLID

CLIENT NAME

PROJECT NAME

PROJECT NUMBER

LAB CONTROL SAMPLE

LCS SAMPLE ID : VLCS72

CLIENT SAMPLE ID : DATE ANALYZED

02/08/2009

INSTRUMENT FILE . C2737-D

METHOD REPERENCE : SW845-82608

LAR CONTROL SAMPLE DUPLICATE

LCSD SAMPLE ID . VLCE72D

CLIENT SAMPLE ID

DATE AMALYEED

:02/08/2008

INSTRUMENT FILE . C2758,D

PARAMETER	units		LCSD TROB VALUE	EODOO	FOUND	RECOVERY	redovery (6)	RPD	RPD C	C.LINITE
Benzena	UG/KG	50.0	50.0	60.2	62.8	120	126	4.9	30	70 - 230
Ethylbanzene	5€\KG	50.0	50.0	5B. B	61.7	110	123	4.1	30	70 ~ 130
Tolvene	VG/RG	50.0	50.0	56.0	60.2	116	120	3.4	30	70 - 130
Xylene (total)	OG/RG	150	150	173	181	115	121	5.1	30	70 - 130

* Indicate values outside of QC limits

0 put of

4 cutside limite

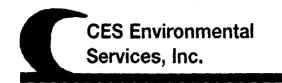
Spike Recovery :

PAGE: 00016

END OF REPORT

PAGE: 00017

2639 PK Manufacturing 2639



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Kevin Papich

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2639

Expiration Date 3/10/2010

Generator: PK Manufacturing **Address:** 9840 Windmill Road

Houston, TX 77064

Waste Information

Name of Waste: Cooling water TCEQ Waste Code #: CESQ1141

Container Type:

Detailed Description of Process Generating Waste: Water used to cool down equipment from burn table

Color: varies

Odor: none

pH: 6-9

Physical State:

Incompatibilities: none known

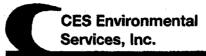
Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. HP.



DC

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information	*			
Company:	PK Manufacturing				
Address:	9840 Windmill Road				
City, State, Zip:	Houston, TX 77064				
Contact:	Kevin Papich		Title:		
Phone No:	281-807-6040		Fax No:	281-807-	4774
24/hr Phone:	832-364-7434				
U.S. EPA LD. No:	TXCESQG				
State LD.	CESQG		SIC Code:	NA	
SECTION 2: Billin	g Information – 🛛 Sa	me as Above			
Company:			٠.		
Address:			· · · · · · · · · · · · · · · · · · ·		
City, State, Zip:					
Contact:		Title:		7 .	
Phone No:		Fax No:		· · · · · · · · · · · · · · · · · · ·	
RECTION 4. Cono	ral Description of the V	Vasta			
SECTION J. Gene	iai Description of the v	<u> vasue</u>			
Name of Waste: Co Detailed Description	oling Water n of Process Generating	Waste: water used to	cool down equipm	nent from b	urn table
Physical State:	☑ Liquid □ Solid	Sludge Filter Cake	☐ Powder ☐ Combination	on	
Color: <u>varies</u>	Od	or: <u>none</u>			
Specific Gravity (w	nter=1): <u>1</u>	Density: <u>8.34</u> lbs/	/gal		
Does this material c	ontain any total phenol	ic compounds? 🗌 Ye	es 🛛 No		
Does this material c	ontain any para substit	uted phenolic compou	ınds? 🗌 Yes 🏻	⊠ No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type:	☐ Drum	☐ Tote	⊠ Truck		Other (explain)
Container Size:	<u></u>	<u></u>	<u>5000</u>	٠	
Frequency:	☐ Weekly	Monthly	☑ Quarterly		Yearly
Гехаs State Waste C	Code No: CESC	2(14)			·
Proper U.S. DOT SI	nipping Name:	Non RCRA Non D	OT Regulated Ma	terial	
Class: NA	UN/NA:	NA	PG: NA	A	RQ: NA

Flash Point	рH	Reactive Sulfides	Reactive Cyanides	Solids
>140= Ze)	<u>6-9</u>	<u>Omg/l</u>	Omg/i	<1%
Oil&Grease	TOC	Zinc	Copper Nick	æi
<1500mg/l	<5000mg/l	Omg/I	mg/l Omg	/1

SECTION 4: Physical and Chemical Data

		MRONEN: SU nsists of the fol	ABBE lowing materials	Concentration Ranges are acceptable	Units or %
Water				95-100	%
Iron Oxide /	Slag			0-5	%
			:		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the	e hazardous	waste chara	cteristics,	listed below	, WAS NOT	PERFORMED	based upon t	he following
generator knowledge:		•	. *			,		

TCLP Metals:	<u> </u>
TCLP Volatiles:	<u> </u>
TCLP Semi-Volatiles:	<u> </u>
Reactivity:	<u> </u>
Corrosivity:	<u>X</u>
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and

attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or st tested are representative of all materials described by this document	uspected hazards have been disclosed. I certify that the materials
Authorized Signature:	
Printed Name/Title: Patrick Sullivan, Ameriforge Corp., Manag	rer Environmental Affairs & Advanced Quality Systems
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer:	
Date: 3-10-08 (Approved) Rejected	
Approval Number: 2639	
2	2

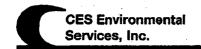
SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and g	rease at or	in excess	of 100 mg/	L, the waste	should be	classified in	the oils subcate	gory.
(2)		waste contains oil and g values listed below, the	•		•	•	. •	listed below	in concentration	ons in exces
	Chron Coppe	nium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L								
(3)		waste contains oil and g above any of the value								n, copper, o
		Metals Subcategory								
		Oils Subcategory								

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

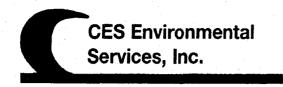
l.	Base Pricing (including freight):
	\$0.10/gallon \$70.00/hour
2.	Contamination Limits (maximum limit before surcharges apply):
	Solids: 1% TOC: 10,000 TOC
	Surcharge Pricing:
	Solids: \$0.01/gallon/% greater than TOC: \$0.03/gallon/5000 TOC greater than 10,000 TOC
•	Special Testing Requirements:
	metals, solids, TOC, pH and phenol. Miles checked the sample and found no metals, TOC to be 1000 ppm, pH 26, out suspended solids < 1000, and found no phenols. Their for pH, TOC, TSS, and phenols.
•	Treatment and Handling Protocol:
	wastewater treat
	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

3. Management for Product Recovered/Recycled (if applicable): NA				NA
	•			
NA		plicable);	or Product Recovered/Recycled	Management for P
				NA





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Randy Woolvine

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2641

Expiration Date 3/11/2010

Generator: Citgo Accounts Payable @ Lake Charles

Address: P. O. Box 600

Lake Charles, LA 70602

Waste Information

Name of Waste: Naphthenic caustic

TCEQ Waste Code #: Product

Container Type:

Barge possible

Detailed Description of Process Generating Waste:

Treating of kerosene and jet fuel w/caustic to remove sulfur compounds

Color: Medium dark

Odor: Characteristic Naphthe pH: >12.0

Physical State:

Incompatibilities: Strong acids

Safety Related Data/Special Handling:

PPE, gloves, glasses/goggles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

rededucto Must be heated them to remove seems lights of too Sand to Now Parks.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	rial Producer Information
Company:	Cita letroleum Corporation
Address:	P.O. BOX 600'
City, State, Zip:	Lake Charles LA 70602
Contact:	Randy woolwing Title: Purchasing Agent
Phone No:	337 708 - 8274 Fax No: 337 - 708 - 6289
24/hr Phone:	
U.S. EPA I.D. No: State I.D.	$\frac{N/B}{N \ln}$ SIC Code: $\frac{N}{\ln}$
State 1.D.	N/P SIC Code: N/P
SECTION 2: Billing Company: Address: City, State, Zip:	z Information – Same as Above
Contact:	Title:
Phone No:	Fax No:
SECTION 3: Gener	al Description of the Material / Product
	M. All Courts
Name of Material / P	of Process Generating or Producing the Material/Product: Treating of kerosene and Jet fuel w/ caustic
Detailed Description	of Process Generating or Producing the Material / Product:
	Jet the W/ caustic
Physical State:	□ Liquid □ Sludge □ Powder to remove sulfur □ Solid □ Filter Cake □ Combination compounds
,	Solid Filter Cake Combination compounds
0 4	
Color: med dan	rK Odor: <u>Characteristic</u> Napthenic acid
Specific Gravity (wat	ter=1): 1.10 Density: 8-9 lbs/gal
Does this material co	ontain any total phenolic compounds? Yes No
Does this material co	ntain any para substituted phenolic compounds? Yes No
Layers:	Single-phase
Container Type:	☐ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size:	Barce Possible
Container Size.	
	
Frequency:	Weekly Monthly Quarterly Yearly
Number of Units (cor	·
	Product
Proper U.S. DOT Shi	
Class:	UN/NA: 1760 PG: T RQ: 1000
<u> </u>	1/60

Flash Point PH > 19.0 N/A	N/A		Solids
Dil&Grease TOC Zinc mg/l 5-7-% mg/l N/4 MM mg/l	Copper	Nickel	
ECTION 4: Physical and Chemical Data	•		
COMPONENTS TABLE		Concentration	LUnits
The material / product consists of the following materials	s P	langes are accepts	
Sodium sterdooxida		2-12-	0/2
Naphtenic acrd 52145		0-6	0/6
Peteroloum Distillates		0-1	0/0
mixed crecylic acid Salts		0-7	- 6
Witten		Balow	9,
SECTION 5: Safety Related Data			
SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this for \[\sum_{\begin{subarray}{c} \begin{subarray}{c} \beg	rm as part of th	e material / produ	ct profile.
SECTION 7: Incompatibilities			
Please list all incompatibilities (If any): Streens acids			
SECTION 8: Material Producer's Certification		Article State Land	
The information contained herein is based on 🗵 generator knowledg			
attached description is complete and accurate to the best of my known or suspensions of composition properties exist and that all known or suspected are representative of all materials described by this document.	pected hazards h	ave been disclosed	d. I certify that the ma
omissions of composition properties exist and that all known or susp	pected hazards h	Date: <u>03/05</u>	d. I certify that the ma

Approved

2641

Approval Number:

Rejected



CERTIFICATE OF ANALYSIS I 62376.01

1of 1

Customer: CES Env. Svcs. Project ID: Citgo LC Sample ID: Naphthenic Caustic 09-28-07

Environ ID: 62376.01

Project Loc: LC, LA Charge/P.O.:

Mairix: Waste Water

Sempled: 09-28-07 Received: 10-01-07

Type: Grab RECEIVED BASIS Reported: 10-05-07

ANALYTE/ PARAMETER	RE	SULT	UNITS	REG.	MOL	TEST METHOD	ANALYST	DATE	TIME
Caustic As NaOH	I	1,9	Wt.%	1 -	0.1	EPA 600,310.1	OLC	10-03-07	07:00
Phenolics	ł	2,790	mg/l	-	0.05	EPA 600.625	LC	10-04-07	10:00
Benzene	- [1.94	mg/l	_	0.01	SW846.8021B	DMB	10-02-07	16:52
METALS (RCRA) - TC	LP		1	1	1	SW846.1311	MN	10-01-07	Į.
Arsenic	1	0.9	mg/i	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Barium	1	0.5	mg/l	100	0.2	SW846.6010B	JK	10-03-07	13:20
Cadmium	<	0.2	mg/l	1.00	0.2	SW846.6010B	JK	10-03-07	13:20
Chromium	<	0.2	mg/l	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Lead	<	0.2	mg/l	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Nickel	<	0.2	mg/i	70.00	0.2	SW846.8010B	JK	10-03-07	13:20
Selenium	<	0.2	mg/l	1.00	0.2	SW846,6010B	JK	10-03-07	13:20
Silver	<	0.2	mg/i	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Zinc	<	0.2	mg/l	-	0.2	SW846.6010B	JK	10-03-07	19:20
Mercury		0.018	mg/i	0.200	0.002	SW846.7470A	MN	10-02-07	12:00
				1	1	1	7		

Colleition

REG - Regulatory Limit (User Should Confirm Limits)

MCL - Method Quenitation Limit

PPM - Parts Per Million

mg4 - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D Laboratory Director



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	- Transportation et 24/gal Material Management et. 41/gallon
	- Material management e \$.41/gallon
2.	Contamination Limits (maximum limit before surcharges apply):
	NIA
3.	Surcharge Pricing:
	NIA
4.	Special Testing Requirements:
	- Run treatability as below listed;
	in #5
	Test water phase for TSS, pH, phenols 4-4
5.	Treatment and Handling Protocol: the bottom water must be heated to remove lights; to Manager Break emulsion by adjusting to a pH of x to at least less than a 4.0
	- Break emulsion by adjusting to a pH of x to at least less than a 4.0
\cap	- segregate oil into a dedicated storage tent trentise onsitt
>	- Break emulsion by adjusting to a pit of the total little on the segregate oil into a dedicated storage tent / tentere onsity Be sure to treat prevols in wastewater from the process water will continue to drain / set he out of the product. Be sure to drain water off product storage traiter as it will be corrosive.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

This material will be sold to Eugean or chinese markets -> Be sure to drain water off bottom of trailer

8. Management for Product Recovered/Recycled (if applicable);

This material should be segregated into a dedicated product storage traiter. Water should continuously be drained from the traiter. We will ship the national (via rented Iso) to Europe or China.

But of Houston 2643 2643



Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2643

Expiration Date 3/11/2010

Generator: Port of Houston Authority-Babours Cut Terminal

Address:

1819 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Used antifreeze TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: yellowish/green

Odor: glycol like

pH: 7-10

Physical State:

Incompatibilities: oxidizers, strong acids and bases

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

AZ

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

(713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information							
Company: Port of Houston Authority (Barbours Cut Terminal)								
Address:	1515 East Barbours Cut Bolevard							
City, State, Zip:	La Porte, Texas 77571							
Contact:	Greg Dodson		Title:	-				
Phone No:	281.4705587		Fax No:	713-670-2429				
24/hr Phone:	713.670.2400		·					
U.S. EPA I.D. No:	TX CESQG		•	^ /				
State I.D.	CESQG		SIC Code:	NA				
		,						
SECTION 2: Billin	g Information – 🗌 Same	as Above						
Company:	Port of Houston Authority							
Address:	Environ mental Affairs	111 East Loop North						
City, State, Zip:	Houston, Texas 77029							
Contact:	Glen Martin- Roxaua	Herren Title:	Program	Coordinator				
Phone No:	713.670 2463 ZEL4	Fax No:	713.670.2427					
SECTION 3: Gene Name of Waste: Us	SECTION 3: General Description of the Waste							
	n of Process Generating V	/aste: Equipment fluid	changes					
Physical State:	☑ Liquid ☐ Solid	Sludge	Powder Combination	ı				
Color: Yellowish/gr	een Odor:	glycol like						
Specific Gravity (w	ater=1): <u>.80-1.0</u>	Density: 8 lbs/gal						
Does this material o	ontain any total phenolic	compounds? Yes	⊠ No					
Does this material o	ontain any para substitute	ed phenolic compounds	? 🗌 Yes 🛛	No				
Layers:	⊠ Single-phase	Multi-phase						
Container Type: Container Size:	☑ Drum ☐ <u>55 Gal</u>	Tote	Truck	Other (explain)				
Frequency:	☐ Weekly ☐	Monthly 🖂	Quarterly	Yearly				
Texas State Waste		yclable Material						
Proper U.S. DOT S	hipping Name:	Non-RCRA/Non-DOT	regulated Mater	rial				
Class: NA	UN/NA:	NA	PG: NA	RQ: NA				

Flash Point	рH	Reactive Sulfides	Reactive Cy	anides Solids
>200 F	<u>7-10</u>	<u>O</u> mg/l	<u>0</u> mg/l	<u>2-4</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/I	>1500mg/l	<u>0</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Ethylene Glycol	40-60	%
Water	40-60	%
Oil .	0-5	%,
dirt	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level ${\bf D}$

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, stong acids and bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

ICLP Metals:	Δ	
TCLP Volatiles:	<u>X</u>	
TCLP Semi-Volatiles:	<u>X</u>	
Reactivity:	X	
Corrosivity:	<u>X</u>	
Ignitability:	<u>X</u>	

Authorized Signature:

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

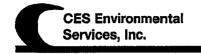
Printed Name/Title: Koxana Herrera, Whry	Us sty Program Cocrollusto
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Rebusillage	
Date: 3-11-08 Approved Rejected	
Approval Number: Z643	

<u>SI</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.				
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.			
	Chrom Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L r: 37.5 mg/L			
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium nickel above any of the values listed above, the waste should be classified in the organics subcategory.					
		Metals Subcategory			
		Oils Subcategory			
		Organics Subcategory			

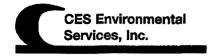
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

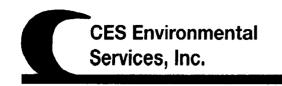
1.	Base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	NA .
	,
3.	Surcharge Pricing:
<i>3.</i>	•
	NA
4.	Special Testing Requirements:
	NA pH, 72 glycol
	•
ı	
5.	Treatment and Handling Protocol:
	Glycol Recycling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
- 1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
i	Ethylene Glycol
8.	Management for Product Recovered/Recycled (if applicable);
) .	
	Glycol Recycling
	\cdot
Ì	
1	\cdot
- 1	,

Port of Houston 26



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2644

Expiration Date 3/11/2010

Generator: Port of Houston Authority-Babours Cut Terminal

Address: 1819 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Oily shop towels TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Rags from general cleaning

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

02

SECTION 1: Generator Information						
Company:	Barbours Cut Terminal			· · · · · · · · · · · · · · · · · · ·		
Address:	1515 East Barbours Cut	Bolevard				
City, State, Zip:	La Porte, Texas 77571					
Contact:	Greg Dodson		Γitle:			
Phone No:	281.4705587		Fax No: <u>713</u>	3-670-2429		
24/hr Phone:	713.670.2400			•		
U.S. EPA I.D. No: 73	CESQG					
State I.D.	CESQG		SIC Code:	ſ Α		
Company: 1 Address: 1 City, State, Zip: 1 Contact: 6	Information — Same Port of Houston Authority Environ mental Affairs Houston, Texas 77029 Elen Martin—Zexa Na. 14 13.6702463 2814	111 East Loop North	709 va w-Coord 113.670.2427	mate		
SECTION 3: Genera	al Description of the Was	<u>ste</u>	ŧ			
Name of Waste: Oily Detailed Description		/aste: Rags from General	cleaning			
Physical State:	□ Liquid □ ☑ Solid □	_	Powder Combination	·		
Color: various	Odor:	oil like				
Specific Gravity (wat	er=1):11/V	Density: 16s/gal				
Does this material co	ntain any total phenolic (compounds? 🗌 Yes 🏻	☑ No			
Does this material con	ntain any para substitute	ed phenolic compounds?	☐ Yes ⊠ No			
Layers:	Single-phase	Multi-phase				
Container Type: Container Size:	☑ Drum □ <u>55 Gal</u>	Tote	Truck	Other (explain)		
Frequency:	☐ Weekly ☐	Monthly 🗵	Quarterly	☐ Yearly		
Texas State Waste Code No: CESQ4891						
Proper U.S. DOT Shi	Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material					
Class: NA	UN/NA:	NA	PG: NA	RQ: NA		

Flash Point >200 F	pH neutral	Reactive Sulfides Omg/l	Reactive Cy Omg/I	vanides Solids
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/I	>1500mg/l	0mg/l	0mg/I	<u> 0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Shop Rags with oil	95-100	%
Trash and debris	0-5	%
		
		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

Authorized Signature:

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 3-7-08

Printed Name/Title: <u>Roxana Herrera</u> Pro	gram Coordinator
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lobbart Gard	
Date: Approved Rejected	
Approval Number: 2644	·

SE	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	this material a wastewater or wastewater sludge? YES NO
If	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	raste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.		
(2)		If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.		
	Chromi Copper	um: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L		
		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.		
		Metals Subcategory		
		Oils Subcategory		
		Organics Subcategory		

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

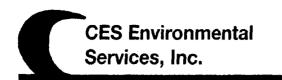


1.	Base Pricing (including freight):
	\$45.00 per drum Transportation \$70.00 hr plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
~.	NA
	·
3.	Surcharge Pricing:
	NA
	·
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
J.	NA
	NA .
	·
	i
į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	C carrendon's C carrendon's C



	Recovered/Recycled (if applicable):	
NA		
		•
		 ·
Management for P	roduct Recovered/Recycled (if applicable);	
		
Recycled Rags	•	
Recycled Rags		

Port of Houston 26



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2645

Expiration Date 3/11/2010

Generator: Port of Houston Authority-Babours Cut Terminal

Address: 1819 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Floor dry

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Clean up of oil spills

Color: white/grey

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 309 ISWR No: 30900

SECTION 1: General	rator Information			
Company:	Barbours Cut Terminal			
Address:	1515 East Barbours Cut Boleva	rd		
City, State, Zip:	La Porte, Texas 77571			
Contact:	Greg Dodson	Title:		
Phone No:	281.4705587	Fax No:	713-670-2429	
24/hr Phone:	713.670.2400			
U.S. EPA I.D. No: T			٨ ٥	
State I.D.	CESQG	SIC Code:	NA	
SECTION 2: Billing Company: Address: City, State, Zip: Contact: Phone No:	Z Information — Same as Abo Port of Houston Authority Environ mental Affairs 111 E Houston, Texas 77029 Glen Martin Zoxaua Herreva 713.6702463 2814	ast Loop North	Cordination	
	al Description of the Waste			
Name of Waste: Flo Detailed Description	or dry of Process Generating Waste: <u>(</u>	Clean up of oil spills		
Physical State:	☐ Liquid ☐ Sludg ☐ Solid ☐ Filter	<u>-</u>	n	
Color: White/Grey	Odor: oil like			
Specific Gravity (wa	ter=1): <u>1.4</u>	ity: 14 Ibs/gal		
Does this material co	ontain/any total phenolic compou	nds? 🗌 Yes 🛮 No		
Does this material co	ntain any para substituted phen	olic compounds? 🗌 Yes 🏻 [☑ No	
Layers:	⊠ Single-phase □ I	Aulti-phase		
Container Type:	□ Tote	☐ Truck	Other (explain)	
Container Size:	<u>55 Gal</u>			
Frequency:	☐ Weekly ☐ Mont	hly Quarterly	☐ Yearly	
Texas State Waste C	ode No: CESQ4891		·	
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT regulated Material				
Class: NA	UN/NA: NA	PG: NA	RQ: NA	

Flash Point >200 F	pH neutral	Reactive Sulfides Omg/I	Reactive Cy Omg/l	anides Solid	
Oil&Grease >1500mg/i	TOC >1500mg/l	Zinc Omg/i	Copper Omg/I	Nickel Omg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Clay Absorbent	80-98	%
Oil (motor oil, hydraulic oil)	2-20	%
Misc trash and debris	0-2	%
		
		<u> </u>
	· .	. [

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Roxana Herrera Programa	Date: 3-7-08
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Pable Approved Rejected	
Approval Number: 2645	

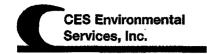
<u>S1</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	nm: 0.2 mg/L num: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

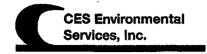
SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

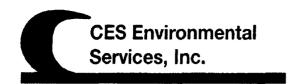


1.	Base Pricing (including freight):
	\$35.00 drum Transportation \$70.00 plus FSC
	•
	· ·
2.	Contamination Limits (maximum limit before surcharges apply):
	NA .
	·
_	
3.	Surcharge Pricing:
	NA .
4.	Consider The string and December 2014
4.	Special Testing Requirements:
	NA
	·
5.	
	NA Class 1 Solids box
	,
Į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	•



7.	Tests for Product Recovered/Recycled (if applicable):	
	NA .	
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		l
		•
3.	Management for Product Recovered/Recycled (if applicable);	
	NA	
		i
		١

Part at Howsten 2646 2646



Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Roxana Herrera

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2646

Expiration Date 3/11/2010

Generator: Port of Houston Authority-Babours Cut Terminal

Address: 1819 East Barbours Cut Blvd

La Porte, TX 77571

Waste Information

Name of Waste: Oil filters
TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment filter changes

Color: various

Odor: oil like

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 SIN

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General Company:	rator Information Barbours Cut Terminal	1	•		
Address:	1515 East Barbours Cu				
City, State, Zip:	La Porte, Texas 77571	t Dolovard			
Contact:	Greg Dodson		Title:		_
Phone No:	281.4705587			713-670-2429	
24/hr Phone:	713.670.2400				_
U.S. EPA I.D. No:	TX CESQG				
State I.D.	CESQG		SIC Code:	WA	
	g Information — Same Port of Houston Authority		***************************************		_
Address:	Environ mental Affairs	111 East Loop North		······································	
	Houston, Texas 77029	111 Eust 200p Horti			
Contact:	Olen Wartin Zoxawa	Herren Title:	Program Co	coreline for	_
Phone No:	713.67024632814	Fax No:	713.670.2427		_
Name of Waste: Oil	ral Description of the Wa filters of Process Generating V		changes		
	_				
Physical State:	☐ Liquid ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Sludge	Powder Combination		
Color: various	Odor	: oil like			
Specific Gravity (wa	ter=1): 12 VA	Density: 2 lbs/gal			
Does this material co	ntain any total phenolic	compounds? 🗌 Yes	⊠ No		
Does this material co	ntain any para substitut	ed phenolic compounds	? 🗌 Yes 🛮 N	To	
Layers:	Single-phase	Multi-phase			
Container Type: Container Size:	☑ D rum ☐ <u>55 Gal</u>	Tote	Truck	Other (explain)	
Frequency:	☐ Weekly ☐	Monthly 🛚	Quarterly ·	☐ Yearly	
Texas State Waste C	<u></u>	cyclable Material			
Proper U.S. DOT Sh	ipping Name:	Non-RCRA/Non-DOT	regulated Materia	1	
Class: NA	UN/NA:	NA	PG: NA	RQ: NA	_

Flash Point	pН	Reactive Sulfides	Reactive Cy	anides Solie	ds
>200 F	<u>neutral</u>	<u>0</u> mg/l	<u>O</u> mg/l	98%	ó
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>O</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Spent Oil Filters	98-100	%
oil	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the h	nazardous waste characteristics,	listed below, WAS NO	T PERFORMED I	pased upon the following
generator knowledge:	•			

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	X
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

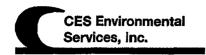
Authorized Signature: Roxava Herrers	Date: <u>3-7-</u> 08
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Dollar Approved Rejected	
Approval Number: 2646	

<u>Se</u>	CCTION 10: Waste Receipt Classification Under 40 CFR 437
Is ·	this material a wastewater or wastewater sludge? YES NO
If '	Yes', complete this section.
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	ils Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

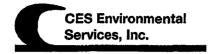
(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$35.00 Drum Transportation \$70.00 hour plus FSC
	·
2.	Contamination Limits (maximum limit before surcharges apply):
Æ.	
	NA NA
	·
	·
3.	Surcharge Pricing:
j	NA
į	
4.	Special Testing Requirements:
٠,	NA NA
	NA ·
ļ	
- [
	·
5.	Treatment and Handling Protocol:
	NA .
1	
Į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
- 1	— anamagar) v



•	Tests for Product Recovered/Recycled (if applicable):
	NA ·
	Management for Product Recovered/Recycled (if applicable):
•	
	Recycle Oil Filters
ı	

2047 AYG Construction 2647



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/12/2008

Dear Robby Meriovskly

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2647

Expiration Date 3/12/2010

Generator: AYG Construction Ltd.

Address: 7006 Burkett

Houston, TX 77021

Waste Information

Name of Waste: Soil contaminated with hydraulic oil

TCEQ Waste Code #: CESQ3011

Container Type:

Detailed Description of Process Generating Waste:

Soil contaminated with hydraulic oil from equipment hose rupture

Color: dark

Odor: none

pH: neutral

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Feb. 27. 2008 2:01PM

No. 0781 F. 2

Need PFI cost paperwork

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 18WR No: 30900

U.S. EPA ID No: TXD008950461

•	Alternation of						
	SECTION 1: Gener						
	Company:						
	Address:	Houston TV 11021					
	City, State, Zip:						
	Contact:	Tim Herron Tille: Project Warder					
	Phone No:	713-748-2202 Fax No: 113-148-8416					
	24/hr Phone:	5ame					
	U.S. EPA LD. No:	None					
	State LD.	name - CASA G SIC Code: none					
	TWO street that he is not 1911	- a - Da					
		g Information - Same as Above					
	Company:	Select Environmental					
	Addresst	223 McCarty					
	City, State, Zip:	Houston, TX. 77029					
	Contact:	Robby Mersiovsky Title: Sales					
	Phone No:	713-882-7740 Fax No: 713-672-9425					
	SECTION 3: Gene	ral Description of the Waste					
	Name of Waste: 500 Detailed Description	ntaminated soil Contaminated with hydraulic oil not Process Generating Waste: soil contamined with hydraulic oil from equipment hose rupture					
	Physical State:	Liquid Sludge Powder					
		Solid Pilter Cake Combination					
1							
	Color; <u>dark</u>	Odox: none Dues This to aleval					
/	*	C til til til om shonelit					
	Specific Gravity (wa	ater=1): No Density: No Ibs/gal Does this material Contain any phonolic Compands? (NO) Single-phase Multi-phase Does this naterial Contain any phonolic Congonds Drum					
L		Compands ? (NO)					
	Layers:	Single-phase Multi-phase I fortain any phase Surate the					
		Does this natival country country					
	Container Type:	Drum Tote Truck Other (explain)					
	Container Size:	<u>65</u> 255					
	Coursiner Size:						
	Frequency:	☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly					
	Number of Units (e	- · · · · · · · · · · · · · · · · · · ·					
		Code No. () (CO) 2011					
	Texas State Waste Code No: CESQ 301						
	Proper U.S. DOT S	hlpping Name: Non-RCRA, Non-DOT Regulated Material					
	Class:	TININA. PG: PO:					
	Class:	UN/NA: NG PG: NG RQ: NG					
	Flash Point	pH reutra Reactive Sulfides Reactive Cyanides Solids					
	Flash Point	pH Neutral Rescrive Sulfides Reactive Cyanides Solids Omg/l Omg/l 100 %					
	Oll&Gresse	TOC. Zinc Copper Nickei					
	Oll&Grease 7/500 mg/l	TOC. Zinc Copper Nickel mg/l					

Feb. 27. 2008 2:02PM

No. 0781 P. 3

SECTION 4: Physical and Chemical Data

	COMPONENTS TABLE	Concentration	Units
	COMPONENTS TABLE The waste consists of the following materials	Ranges are acceptable	or %
soll		98%	
hyd oll		2%	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. see msds

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	Ŋ
Reactivity:	X
Corresivity:	×
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Printed Name/Title: Edillo Colon CP	Market 2-21-08
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Parker Than A Date: 3-12-08 Approval Number: 2647	Additional Information:

Feb. 27. 2008 2:02PM

No. 0781 P. 4

<u>S)</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Įs	this material a wastewater or wastewater sludge? TYES X NO
If	'Yes', complete this section.
P	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Met	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and shudges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
	Vibratory deburring wastewater
Ц	Alkaline and acid solutions used to clean metal parts or equipment
Oils	Subcategory: Subpari B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
Ц	Off-specification fucis
Ц	Underground storage remediation waste
片	Tank clean-out from petroleum or oily sources
片	Non-contact used glycols
H	Aqueous and oil mixtures from parts cleaning operations
—	Wastewater from oil bearing paint washes
Org	anics Subcategory: Subpart C
\Box	Landfill leachate
Ħ	Contaminated groundwater clean-up from non-petroleum sources
5	Solvent-bearing Wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
Ō	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources

Feb. 27. 2008 2:02PM

No. 0781 P. 5

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

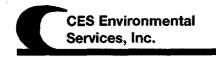
Metals Subcategory

Oils Subcategory

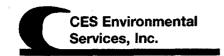
Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
i	\$ 65/drum ttranstssc
i	
:	
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	·
5.	Treatment and Handling Protocol:
	Class Balk
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



Tests for Product Reco	vered/Recycled (if appli	icable):	 	 	
Management for Produ	uct Recovered/Recycled	(if applicable);	 	 	
Management for Produ	uct Recovered/Recycled	(if applicable);	 		
Management for Produ	uct Recovered/Recycled	(if applicable);			
Management for Produ	uct Recovered/Recycled	(if applicable);			

MATERIAL SAFETY DATA SHEET

Revision Date: 4/30/03

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Emerald Premium HVI AW 32 Hydraulic Oil

MSDS NUMBER: 03004 PRODUCT CODE(S): EM317

O'Rourke Petroleum Products

223 McCarty Drive Houston, Texas 77029 **TELEPHONE NUMBERS**

Spill Information: Health Information: 713-6724500 713-672-4500

MSDS Assistance Number: 713-672-4500

SECTION 2

PRODUCT/INGREDIENTS

INGREDIENTS Solvent-Dewaxed Heavy Paraffinic Distillates (petroleum)

CAS# 64742-65-0 CONCENTRATION 97 - 100 % weight

Pour Point De pressant

Mixture PPD

2 - Max. % weight

Anti-Wear Additive

Mixture AWA

1 - Max. % weight

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Light golden brown viscous liquid & Light, Mildly Petroleum Odor. Product floats on water. Health Hazards: May cause slight skin irritation upon short-term direct contact. Prolonged and/or repeated contact may produce skin irritation and inflammation.

Physical Hazards: Slightly combustible (Flammability Class IIIB) but will burn. Heated product will produce colorless vapors. Heated vapors in the presence of an ignition source can be explosive, if confined.

NFPA Rating (Health, Fire, Reactivity): 1, 1, 0

Hazard Rating: Least - 0 Slight - 1 Moderate - 2

High - 3 Extreme - 4

Inhalation:

This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. The permissible exposure limit (PEL) and threshold limit value (TLV) for this product as oil mist is 5 MG/M3. Exposures below 5 MG/M3 appear to be without significant health risk. The short-term exposure limit for this product as an oil mist is 10 MG/M3.

Eye irritation:

Test on similar materials suggest that no eye effect be expected. This product is practically non-irritating to the eyes upon direct contact. Based on testing of similar products and/or components.

Skin Contact:

Avoid skin contact. This product may cause slight skin irritation upon short-term direct contact. Based on testing of similar products and/or components. Prolonged or repeated contact may result in contact dermatitis, which is characterized by dryness, chapping, and reddening. Prolonged or repeated contact may also result in oil acne, which is characterized by blackheads with possible secondary infection.

ingestion:

Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea.

Chronic:

Prolonged and/or repeated contact with this material may produce skin irritation and inflammation. On rare

Emerald Premium HVI AW 32

Page 1 of 7

MSDS# 03004

occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms.

Carcinogen listed by:

National Toxicology Program (NO)

I.A.R.C. (NO)

OSHA (NO)

ACGIH (NO)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

Aggravated Medical Conditions:

Personnel with pre-existing skin disorders should avoid contact with this product. This condition may make the skin more susceptible to other irritants, sensitizers, and diseases.

Health studies have shown that many petroleum products and synthetic lubricants pose potential human health risks, which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

SECTION 4

FIRST AID MEASURES

Inhalation:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from exposure until excessive oil mist condition subsides.

Skin:

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dryclean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as an emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Prolonged or repeated skin contact may cause skin irritation.

Eve:

If splashed into eyes, immediately flush with water for 15 minutes or until irritation subsides. If material is hot, treat for thermal burns and take victim to hospital. If irritation persists, call a physician.

Indestion:

Product is practically non-toxic. Do not induce vomiting. Obtain emergency medical attention.

SECTION 5

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:

>385°F COC ASTM D92

AUTO IGNITION:

FLAMMABILITY CLASS:

IIIB

LOWER EXPLOSIVE LIMIT (%): NOT DETERMINED

UPPER EXPLOSIVE LIMIT (%): NOT DETERMINED

Fire and Explosion Hazards:

Slightly combustible, OSHA/NFPA Class IIIB Combustible Liquid. If heated above its flash point will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oils normal flash point. Keep away from extreme heat or open flame.

Emerald Premium HVI AW 32

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MSDS# 03004

Extinguishing Media:

Foam, water spray (fog), dry chemical, carbon dioxide, and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product.

Fire Fighting Instructions:

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, furnes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Decomposition Products Under Fire Condition:

Fumes, smoke, carbon monoxide, aldehydes and other decomposition products, may be generated as products of combustion.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Clean Water Act/Oil Pollution Act:

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills that enter a water body must be immediately reported to the National Response Center 1-800-424-8802.

Steps To Be Taken In case Material Is Released Or Spilled:

Notify appropriate authorities of spill. This material will float on water and will be transported by storm water runoff. Spills to the ground should be immobilized and removed immediately. Spills to watercourses such as storm drains, sewers, ditches, streams, ponds, etc., must be contained with dikes, dams, floating booms, pads, etc. as appropriate. Recover free product. Absorb with appropriate inert materials such as sand, clay, earth or other suitable absorbent to spill area. Remove all sources of ignition. Minimize skin contact. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

SECTION 7

HANDLING AND STORAGE

Precautionary Measures:

Keep away from flames, sparks, oxidizing materials or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. NFPA Class IIIB storage. Wash thoroughly after handling. This product is not classified as hazardous under DOT regulations. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106 — Flammable and Combustible Liquids.

Work/Hygienic Practices

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

'Empty" Container Warning;

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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CIIICIAN	LIGHTHUM	LIA1	~**	JE

Page	7	24	7
raye	J	u	

For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage:

Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures,

Container Warnings:

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection:

Use safety glasses or splash goggles when eye contact may occur. Have suitable eye wash water available.

Skin Protection:

Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious clothing (gloves, boots, aprons, etc.). If handling hot material, use insulated protective clothing (gloves, boots, aprons, etc.). Acceptable materials for gloves are polyvinyl chloride; neoprene; nitrile; polyvinyl alcohol: viton. Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

Respiratory Protection:

Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust or mist filter. All respirators must be NIOSH/MSH certified. DO NOT USE COMPRESSES OXYGEN IN HYDROCARBON ATMOSPHERES.

Ventilation:

If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specific exposure or flammable limits. No smoking, or use of flame or other ignition sources.

Consumption of food and beverages should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Light golden brown liquid - Mild Petroleum Odor

Substance Chemical Family: Lubricants

Basic Physical Proprieties:

Physical State: **Boiling Point: Melting Point:** Vapor Pressure:

Liquid IBP N/A °F Pour point -15°F N/A mm Hg @ 20° N/A

Vapor Density (Air = 1)

0.868 Water = 1

Specific Gravity: Molecular Weight: Packing Density:

405.00 N/A

Solubility (H₂O):

Negligible in water

Percent Volatiles: Volatile Organic Compounds (VOC) Content: N/A Evaporation Rate:

N/A N/A

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MSDS# 03004

Emerald Premium HVI AW 32

pH: Viscosity: Essentially neutral N/A SUS at 100°F

SECTION 10

REACTIVITY AND STABILITY

Stability:

Stable. Will not react violently with water.

Conditions to Avoid:

Source of ignition.

Incompatible Materials:

May react with strong oxidizers such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

Hazardous Decomposition Products:

Combustion may produce carbon monoxide and other asphyxiants.

Hazardous Polymerization:

Will not occur

SECTION 11

TOXICOLOGICAL INFORMATION

Acute Studies:

Product has a low order of acute and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Eve Effects:

Product contacting the eyes may cause eye irritation.

Skin Effects:

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Acute Oral Effects:

Product has a low order of acute and dermal toxicity but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Acute Inhalation Effects:

Product has a low order of acute and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as atmospheric distillates or synthetically derived materials, and as such is not characterized by current IARC classification criteria.

SECTION 12

ECOLOGICAL INFORMATION

If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

This product is rapidly biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environment at

Emerald Premium HVI AW 32

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MSDS# 03004

temperatures above 70°F.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

DO NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill without prior solidification. Department of transportation (DOT) Regulations may apply for transporting this material when spilled. Materials should be recycled if possible. Consider waste brokering.

SECTION 14

TRANSPORT INFORMATION

US Department of Transportation Classification Not hazardous by DOT Regulation

Hazard Class:

ШΒ

DOT Identification Number:

NOT APPLICABLE

SECTION 15

REGULATORY INFORMATION

Federal Regulatory Status

OSHA Classification:

SARA 302 Threshold Planning Quantity: NOT APPLICABLE SARA 304 Reportable Quantity: NOT APPLICABLE

SARA 311 Categories: Immediate (Acute) Health Effects - N

Delayed (Chronic) Health Effects - Y
Fire Hazard -- N

Sudden Release of Pressure Hazard -- N Reactivity Hazard -- N

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals,

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA Title III – Section 313 Supplier Notification: No chemicals in this product exceed the De Minimums reporting level established by SARA Title III, Section 313 and 40 CFR 372.

European (ECC) Regulatory Information:

This product is listed on the European Inventory of Existing Commercial Substances.

Canadian Regulatory Information:

This product is listed on the Canadian (DSL) Domestic Substances List. WHMIS Classification: NOT CONTROLLED

DOT:

Not regulated

SECTION 16

OTHER INFORMATION

Emerald Premium HVI AW 32

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MSDS# 03004

HMIS Rating (Health, Fire, Reactivity): 1, 1, 0

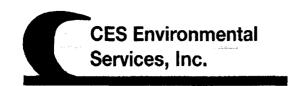
DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein and assume no responsibility regarding the suitability of this information for the user's intended purpose or for the consequence of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).

Emerald Premium HVI AW 32 · Page 7 of 7 MSDS# 03004 ·

2648 NOV Drilling 2648

71 8-4-09 LAD 5



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/12/2008

Dear Ed Joye

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2648

Expiration Date 3/12/2010

Generator: NOV Drilling Equipment (West Little York)

Address: 129

12950 W. Little York Houston, TX 77041

Waste Information

Name of Waste: Phosphate sludge and phosphate rinse water

TCEQ Waste Code #: 00533192

Container Type:

Detailed Description of Process Generating Waste:

Color: slight green

Odor: none

pH: 3-8

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

2/2

http://www.cesenvironmental.com

TCEO Industrial Solid Waste Permit No. 30948

		ID No: TXD0089504		No: 30900
SECTION 1: General Company:	ntor Information National Oilwell Van	co (West Little York)		
Address:	12950 W. Little York		· · · · · · · · · · · · · · · · · · ·	The second secon
City, State, Zip:	Houston, TX 77041		A COMMON TO SECURIOR	
Contact:	Ed Joye		Title:	EHS Mgr.
Phone No:	713-856-4145		Fax No:	713-435-2093
24/hr Phone:	CES-713-676-1460			
U.S. EPA I.D. No:	TXT490014180			
State L.D.	32145		SIC Code:	ΝA
		A AND DESCRIPTION OF THE PROPERTY OF THE PROPE		
SECTION 2: Billing	Information – 🛛 Sai	ne as Above		
Company: Address:				
1				
City, State, Zip:		Title:	· · · · · · · · · · · · · · · · · · ·	
Contact: Phone No:		Fax No:		
ruone 140:		rax nu:		
SECTION 3: General	al Description of the V	<u>Vaste</u>		
Name of Waste: Pho- Detailed Description			nosphate sludge a	nd rinse water from phosphate treating proces
	59	FF and f		
Physical State:	Tanana B	Sludge [Powder	
	⊠ Solid	Filter Cake	☐ Combination	l
Color: Slight Green	Od	or: <u>none</u>		
Specific Gravity (wat	er=1): <u>1.2</u>	Density: 9.5 lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type:	☑ Drum	☑ Tote □	Truck	Other (explain)
Container Size:	55 gal	300 gal	_ ******	
Container Size:	<u> </u>	Joo gai		
	[7] W/2013b.	☐ Montbly 🔯	Quarterly	Yearly
Frequency:	Weekly		7 Annterry	rearry
Number of Units (cor	-	Other:		
Texas State Waste Co	ode No: 0053	3192		
Proper U.S. DOT Shi	ipping Name:	Non-RCRA; Non-DC	~	
Class: NA	UN/NA:	NA	PG: NA	RQ: NA
# STATE OF THE PROPERTY OF THE		Crustilities and Committee of the Commit	······································	***************************************
Flash Point	pH E	Reactive Sulfides	Reactive C	yanides Solids
>150-200	F)mg/l	Omg/I	2-100%
Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	Omg/l	Qmg/l	1-5mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
Phosphate Sludge	0-100	%	
Phosphate Rinse Water	0-100	%	
			

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	X X		
SECTION 9: Generato	or's Certification		
attached description is comissions of compositio tested are representative Authorized Signature:	complete and accurate to the b	pest of my knowledge and cnown or suspected hazard s document.	analytical data. I hereby certify that the above and ability to determine that no deliberate or willful s have been disclosed. I certify that the materials Date: 3-12-08
CES USE ONLY (DO NOT V	VRITE IN THIS SPACE)		comes in
Compliance Officer:	abhut Hoged	Additional Inf	
Date: 3-12-08	Approved Re	ejected	10000/TP Jan
Approval Number:	2648	The second secon	Dweste

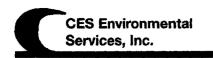
	SECTION 10: Waste Receipt Classification Under 40 CFR 437
	Is this material a wastewater or wastewater sludge? YES NO
	If 'Yes', complete this section.
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
A	<u>Subcategory:</u> Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Q	ils Subcategory: Subpart B
	Used oils Oll-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>O</u>	Organics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L :: 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
	\boxtimes	Metals Subcategory
	П	Oils Subcategory

SECTION 11: Additional Instructions

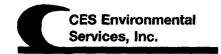
Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$50.00 drum \$100.00 tote
2.	Contamination Limits (maximum limit before surcharges apply):
	none
3.	Surcharge Pricing:
4.	Special Testing Requirements:
4.	special resting Requirements: sheck for metals on rinse water if high then send to Newpark tank Send water to Newpark, run ptt + make sure ptt is between 5-11.5
5,	Treatment and Handling Protocol:
6.	Sludge to Class II box, liquids to waste water or Newpark tank if metals are high Treated Wastewater Discharge Subcategory:
	☑ Subcategory A ☑ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA NA
,	
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); NA
8.	
8.	
8.	
8.	

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460 (713) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#:

7110607

Client Sample ID:

Phosphate Sludge

Extended ID:

NOV W. Little York

Sample Collect Date: 11/27/2007 @ 1:30:00 PM

Sample Type:

Grab

Sample Receipt Date: 11/27/2007 @ 3:30:00 PM

Test Group / Method					
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time
Antimony	0.032	1	0.476	mg/L	11/28/2007 / 9:44 AM
Arsenic	0.014	5	0.044	mg/L	11/28/2007 / 9:44 AM ~
Barium	0.0005	100	0.0710	mg/L	11/28/2007 / 9:44 AM L
Beryllium	0.0005	0.08	< 0.0005	mg/L	11/28/2007 / 9:44 AM ~
Cadmium	0.002	1	0.011	mg/L	11/28/2007 / 9.44 AM
Chromium	0.002	5	< 0.002	mg/L	11/28/2007 / 9:44 AM 🕶
Lead	0.005	5	< 0.005	mg/L	11/28/2007 / 9:44 AM C
Nickel	0.003	70	1.41	- mg/L	11/28/2007 / 9:44 AM L
Selenium	0.024	1	0.065	mg/L	11/28/2007 / 9:44 AM 2
Silver	0.002	5	< 0.002	mg/L	11/28/2007 / 9:44 AM -
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Мегсигу	0.0002	0.2	0.0008	mg/L	11/28/2007 / 4:42 PM
Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL		Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4		< 4	mg/kg	11/28/2007 / 3:11 AM
>C12 - C28 Hydrocarbons	8		673	mg/kg	11/28/2007 / 3:11 AM
>C28 - C36 Hydrocarbons	8		254	mg/kg	11/28/2007 / 3:11 AM
Total TPH	20		927	mg/kg	11/28/2007 / 3:11 AM
Reactivity, Recoverable Hydrogen Cy Method: 7.3.3.2	anide MDL		Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	11/28/2007 / 1:00 PM

Report Date: 29-Nov-07

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

7110607

Client Sample ID: Extended ID:

Phosphate Sludge NOV W. Little York

Sample Collect Date: 11/27/2007 @ 1:30:00 PM

Sample Type:

Grab

Sample Receipt Date: 11/27/2007 @ 3:30:00 PM

Reactivity, Recoverable Hydro	gen Sulfide			Analyst: CL
Method: 7.3.4.2	MDL	Result	Units	Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	11/29/2007 / 9:00 AM
Corrosivity: pH	•			Analyst: JE
Method: SW-846 9045	MDL	Result	Units	Date / Time
рН		3.61		11/27/2007 / 4:00 PM
Ignitability				Analyst: DEB
Method: SW-846 1010	MDI	Result	Units	Date / Time
Flashpoint		>150	deg F	11/28/2007 / 10:00 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Thursday, November 29, 2007

Date

Report Date: 29-Nov-07

Page 2 of 2

7110606 - 7110607

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium		105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium		109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2,90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0	••••		
Nickel	< 0.001	105	106	1.56	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06
ANALYTE		STD							
Flashpoint		82°F							
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD					
ρΗ	7.0	9.34	9.36	0.21					-
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD					
Reactivity as I	Hydrogen Sulfide	< 0.25	< 0.25	0.00					
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD	STD %REC				
Reactivity as I	lydrogen Cyanide	< 0.25	< 0.25	0.00	100				

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	115.4	121.6	124.0
C12-C28		< 8	109.4	111.2	117.8

— Mercury Environmental Services, Inc. –

7110606 - 7110607

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery
MDL=Minimum Detection Limit
RL=Regulatory Limit

Signature: _

Holland D. Gilmore / Laboratory Director

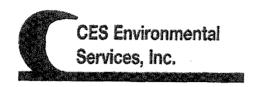
November 29, 2007

70//0

PAGE

COMPANY NAME: (BILL TO:) CES	Enviro	nmer	fe/			MI	ES		- 0	HAIN	OF	CUS	TODY	1-800-771-4MES (281) 476-4534
COMPANY ADDRESS:					$ \begin{bmatrix} \tilde{I} \\ \tilde{e} \end{bmatrix}$	Merci 1913 H	ury E lwy. 225	nvir • De	onm er Pan	entai	Ser 7536	vice:	S	Fax (281)-476-4406
CONTACT PERSON'S NAME:		_ FAX #:	DIECT NAME	lleyor	4		ARAME	TERS F	FOR AM	ALYSIS		NUMBER OF COM	PRESENTATIONS	TURNAROUNE THE SURE SPECIAL LIMITS REQUIRED Please circle one, Il Yes,
YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRI			$\left\langle \cdot, \cdot \right\rangle$					2	8	cr include separate
Separator Sludge	6	11-27-07	9.30	by 5/4	<u></u>	<u></u>	V	10				\		sheet detailing requirements.
separater sludge phosphate sludge	6	11270	7/:30	Soli	NV	V	0							·
	N					<u> </u>							,	
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					+	 		-	 		1			
PERSON TAKING SAMPLE SIGNATURE (8 Prial Name 6 - Gary Branching and	//	1	2		RELINQUISHE Sprieture	D BY:	3			DAY	1707	TIME	257	CEIVED BY: Institute) I DIPULÓ
	TE THE	RECEIVED (Signature)	BY:	1	REUNQUISHE Sgrabue)	g.8√:				DAT		TIME	FE	CHVED BY: gnariure)
	(IPPEO BY: gnetive)	<u></u>	C) (S	OURIER gosture)				75	CEIVED	FOR MES	BY: 1	di	ZM	a 11/27 1530
Sample Remainder Disposal O Return Sample Remainder To Client Via				ľ	Request	Lab Yo	Dispose	OI WES	Sample I	Remaind	ig/s		(Date)	11-27-07





4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Waste Profile Re-Certification Form

CES Waste Approval #: HOU-2648

Customer: NOV Drilling Equipment (West Little York)

Waste Generator: NOV Drilling Equipment (West Little York)

Waste Stream Name: Phosphate sludge and phosphate rinse water

Expiration Date: <u>3/12/2010</u>

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

No changes, please recertify.

Please send new profile as waste stream has changed.

TCLP Metals
TCLP Volatiles

TCLP Semi-volatiles

Analysis is NOT required for recertification.

Please sumbit results of the following tests.

The following analysis is required for recertification.

Reactivity Corrosivity

Ignitability

Company / Title

Date

Amond Reycling 24

EPAHO108001986

TO THE TOTAL STOP

4904 Griggs Road Houston TX 77021 Tel. (*13) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2003

Dear Bill West

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2632

Expiration Date 3/4/2010

Generator: Arrow Recycling **Address:** 7311 Decker Dr.

Baytown, TX

Waste Information

Name of Waste: Recyclable oily water

TCEQ Waste Code #: Recycle

Container Type:

vac box

Detailed Description of Process Generating Waste:

Oil and water mixture from oil collection tank

Color: black

Odor: oil

pH: 3-11

Physical State:

Incompatibilities: N/A

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. - Phase: Multi Phase 30-90% water

CES Environmental Services, Inc.

- Sec. 4

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Gener					
Company:	ARROW				
Address:	7311 Decker Dr.				
City, State, Zip:	Baytown, TX 7752	20	~		
Contact:	Vinny Passanante		Title:		s Manager
Phone No:	281-838-3037		Fax No:	281-424-8	3189
24/hr Phone:	281-652-7501				
U.S. EPA I.D. No:	TXR000021055		<u> </u>		
State I.D.	84944		SIC Code:	4212	
CECTION - DIVI					
	g Information – 🛛 S	same as Above	V F		
Company:					· · · · · · · · · · · · · · · · · · ·
Address:					·
City, State, Zip:					
Contact:		Title	·		
Phone No:	·	Fax I	No:	· · · · · · · · · · · · · · · · · · ·	
	ral Description of the				
Name of Waste: The Detailed Description	Zwydable n of Process Generat	Oil, Water, ing Waste: Oilly	water mixtu	te fre	sm oil collection tan
Physical State:	☑ Liquid☐ Solid	⊠ Sludge □ Filter Cake	☐ Powder ☐ Combination		
Color: Black	,	Odor: <u>Oil</u>	w.		
Specific Gravity (wa	ater=1):	Density: 85	2 lbs/gal		
Does this material c	ontain any total phe	nolic compounds?	Yes 🛛 No		
Does this material c	ontain any para sub	stituted phenolic com	pounds? 🗌 Yes 🏻	⊠ No	
Layers:	Single-phase	☐ Multi-ph:	ase		
Container Type: Container Size:	Drum	Tote	Truck		Other (explain) Vacuum box
Frequency: Number of Units (co		Monthly Other:	Quarterly		Yearly
Texas State Waste	Loge No:	Recycle			
Proper U.S. DOT S	hipping Name:	necyclabl	e Oily wo	ater	
Class:	UN/N		PG: N	Ta	RQ;V/A

Oil&Grease	тос	N/A mg/l	Copper —	= 30-9 Nickel = 1	
<i>N/P</i> _mg/l	<u> <i>№/舟_</i>mg/I</u>	$\sim V_{\perp} \gamma_{\perp} $ mg/l \sim		//////////////////////////////////////	
CECTION 4 DI	1.00			· · · · · · · · · · · · · · · · · · ·	
SECTION 4: Physica					
The w		NTS TABLE the following materials		Concentration iges are acceptable	Units or %
0:1	4310 001131313 01	the 10howing materials		- 40	1%
Water			3	0-90	%
- Side of				J 10	
Solido)-30. <u> </u>	1/0
		·			
		·			
	and the second s				
SECTION 5: Safety	Related Data	•			
If the handling of this <u>No</u>	waste requires	the use of special protective	re equipment, please	explain.	
<u>INO</u>					
SECTION 6: Attach	ed Supporting I	<u>Documents</u>			
List all documents, no	otes, data, and/o	or analysis attached to this	form as part of the v	vaste approval pack	age.
CES	report		-		
SECTION 7: Incomp	J ·				
Please list all incomp					
N/A	atibilities (II ally	():			
		· ·	•		
SECTION 8: Genera	tor's Knowleds	ge Documentation			
Laboratory analysis o	of the hazardou	s waste characteristics, list	ed below, WAS NOT	PERFORMED bas	sed upon the follow
generator knowledge	:				
TCLP Metals:	None				
TCLP Volatiles:	None				
TCLP Semi-Volatiles					
Reactivity: Corrosivity:	<u>N/A</u> N/A				
Ignitability:	<u>≥140</u>				
SECTION 9: Genera					
attached description is omissions of composite	s complete and tion properties e	ased on \(\sum \) generator knowled accurate to the best of my xist and that all known or someonic by this documents	knowledge and abili- uspected hazards hav	ty to determine that	no deliberate or w
Authorized Signature		Mot		Date: <u>2/29/08</u>	
Printed Name/Title:	Vincent Passan	ante	· · · · · · · · · · · · · · · · · · ·		
CES USE ONLY (DO NO	T WRITE IN THIS	SPACE)		·	
) L (21/20			
Compliance Officer: \frac{\lambda}{2}	y but had	7/1			
_ 1					
Date: 7 29 7	60 X	Approved Rejected			•

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? XES

	lf"	Yes', complete this section.					
Lin or	PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIAT	E CATE	GORY, GO T	O THE NE	XT PAGE.
	Metal	is Subcategory: Subpart A	The residue and a				
	Ц	Spent electroplating baths and/or sludges					
	님	Metal finishing rinse water and sludges			*		
	\square	Chromate wastes					
	H	Air pollution control blow down water and sludges					
	H	Spent anodizing solutions					
	님	Incineration wastewaters					
	님	Waste liquid mercury					
	H	Cyanide-containing wastes greater than 136 mg/l					
	H	Waste acids and bases with or without metals					
	H	Cleaning, rinsing, and surface preparation solutions from ele	ectroplati	ing or pho	osphating ope	erations	
	H	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi	·				
	ш.	Askanne and acid solutions used to clean metal parts or equi	pment				
	Oile S	Subcategory: Subpart B					
	Ous D	wocutegory. Support B					
	П	Used oils					
	Ħ	Oil-water emulsions or mixtures					
	Ħ	Lubricants					
	币	Coolants					
		Contaminated groundwater clean-up from petroleum sources	s				
		Used petroleum products	-				
		Oil spill clean-up		•			
		Bilge water					
		Rinse/wash waters from petroleum sources					
		Interceptor wastes					
		Off-specification fuels					
		Underground storage remediation waste					
	\boxtimes	Tank clean-out from petroleum or oily sources					16
	L	Non-contact used glycols			1		
	\square	Aqueous and oil mixtures from parts cleaning operations					
	با	Wastewater from oil bearing paint washes					
	Organ	nics Subcategory: Subpart C					
	<u> </u>	Subjuit C					
		Landfill leachate					
		Contaminated groundwater clean-up from non-petroleum sou	urces			•	
		Solvent-bearing wastes					
		Off-specification organic product					
		Still bottoms					
		Byproduct waste glycol					
	Ц	Wastewater from paint washes					
	Ц	Wastewater from adhesives and/or epoxies formulation					
	\square	Wastewater from organic chemical product operations					
	1 1	Tank alaan aut from argania non notroloum garrage					

	Cadmium: 0.2 mg/L	27 (Annual 23 (Annual		
Augo 8:	Chromium: 8.9 mg/L			100000
	Copper: 4.9 mg/L	The state of the s		
	Nickel: 37.5 mg/L	મહેલમું જ દુવા	and a second	
(3)	If the waste contains oil and grease less than 100		vacamani, cinomiani, ci	pppol, or
	nickel above any of the values listed above, the	waste should be classified in the organics su	bcategory.	• •
	nickel above any of the values listed above, the values Subcategory	waste should be classified in the organics su	bcategory.	
	mickel above any of the values listed above, the values Subcategory	waste should be classified in the organics su	bcategory.	
	nickel above any of the values listed above, the	waste should be classified in the organics su	bcategory.	

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):	- 150 - 150
	\$0.25/gal+trans +fsc	
2.	Contamination Limits (maximum limit before surcharges apply):	
ile iz e er j		
		-
3.	Surcharge Pricing:	
-	Solido in excess of 50%	
		-
4.	Special Testing Requirements:	
	pH, % Solids, Oil + water by centrilinge. Flash Point.	
5.	Treatment and Handling Protocol:	
	Contrifuse & dispose of solids as Class 1 Recover Oil . Treat water and discharge	
6.	Treated Wastewater Discharge Subcategory:	
:	☐ Subcategory A ☐ Subcategory C	



PROCESS FACILITY INFORMATION (CES USE ON EXT.)

· * •	Tests for Product Recovered/I	Gercieu (M. appireup)		The second of th		212227 4 2
at j	Cultur in	~ n (े इ.स्ट्रेस्ट्राइक्ट्र		Marchens	
	Stock or	ini				
			ř.			
	100 100 100 100 100 100 100 100 100 100	and the state of t	e de le gran			

<u>Manag</u>	ement for Produc	t Recovered/Re	ecycled (if ap	plicable);		
agar bay				,	in in the second	
	\$					Surface Control of th

4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker Date: 03/02/08

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

From: Miles Root Lab Memo: 08-026

Subject: Arrow Recycling Evaluation 0308-01

A sample from Arrow Recycling representing a sludge/tank bottoms sample from an oil storage tank has been evaluated for receipt and processing at CES. Material contains approximately 35% solids and 20% oil by centrifuge. Oil layer has chlor-d-tect of only 700 mg/L and is very thick. Flash point is greater than 140 deg F. This looks like material we can process at CES and I understand a receipt from this supplier is expected on Monday, March 3rd.

3633 GATX (Hernme) 2633



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Ricardo Salias

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2633

Expiration Date 3/5/2010

Generator: GATX (Hearne)

Address: 1401 W. Brown St.

Hearne, TX 77859

Waste Information

Name of Waste: N-Methyl-2-pyrrolidone

TCEQ Waste Code #: 99074091

Container Type:

Detailed Description of Process Generating Waste:

Removal of driedup heel prior to cleaning RCRA empty rail cars

Color: clear to white Od

Odor: amine pH: na

Physical State:

Incompatibilities: oxidizing reagents and strong acids

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. See. 4 physical state

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 7 21

Phone: (713) 676-1460

Fax: (713) 676 1576

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30 8 U.S. EPA II No: TXD008950461 ISWR No: 30900

SECTION 1. C.	atan In Commett:		
SECTION 1: General			
Company:	GATX Rail	NR 060	<u>.</u>
Address:	1401 W. Brown Street Po) Box 909	_in j
City, State, Zip:	Hearne, TX 77859		-i
Contact:	Ricardo Salias	Title:	
Phone No:	979-279-3481	Fax No: 97	279-5664
24/br Phone:	1777D00000000	:	
U.S. EPA I.D. No:	TXD000835207		
State I.D.	32643	SIC Code: N	1
~	109		
•	<u> Information – 🔀 Same 1</u>	<u>s Above</u>	
Company:			- -
Address:			
City, State, Zip:			
Contact:		Title:	10
Phone No:		Fax No:	i i
		:	
SECTION 3: General	al Description of the Was	<u>e</u>	
	pyrrolidone		
Name of Waste: N-M	<u>1ethyl-2-pyrcolidone</u>	deriedup	
Detailed Description	of Process Generating W	aste: removal of heel prior to cleaning RC	A empty rail care
	-	^	
Physical State:	-	Sludge 🔲 Powder	i.
	🛛 Solid 🔲	Filter Cake 🔲 Combination .	
Color: clear to white	Odor:	mine	.
Specific Gravity (was	ter=1): 1.028 VA	Density: 🔥 lbs/gal	
	, <u></u> (···· y	
Does this material on	ntain any total phenolic c	ompounds? 🗌 Yes 🛛 No	
Does tills material co	utam amy total phenone c	burhonnus: 🗀 x es 🖂 140	
Does this material co	ntain anv nare enhetitute	phenolic compounds? 🔲 Yes 🛛 🖂 N	. :
DOCS THIS DIMECHALL CO	Main any para substitute	p pacaone compounds.	
Layers:	Single-phase	Multi-phase	**************************************
y	ET CITATO PARCO		
Containan Temas	☑ Drum □	Tote Truck	Other (arthur)
Container Type:		Tote Truck	Other (explain)
Container Size:	<u>55 gal</u>		; · &
Frequency:	☐ Weekly ☐	Monthly 🛛 Quarterly	Yearly !
- 1			<u></u>
Number of Units (co)		Other:	
Texas State Waste Co	ode No: 9907409		
Proper U.S. DOT Shi	ipping Name:	Non RCRA Non DOT Regulated Materia	
			TICE NYA
Class: NA	UN/NA:	NA PG: NA	RG: NA
	_		
•			· ·

2

)J/ U=,	2000 10.31 3/32/33020	I WATER TEACHE	٠.	ii.	
				ii J	
OT .	myon 40. Weste Descint Classification II	nder 40 CER 437			
SEC	TION 10: Waste Receipt Classification U	11de1 40 C/AC 407	.,"		
In th	is material a wastewater or wastewater sludg	? ☐ YES ☒ NO	14 1		
)\$ tii	is matching a waste water of waste was a same	_		ii ii	₩.
16 'V	es', complete this section.				
PLE	ASE CHECK THE APPROPRIATE BOX.	IF NO APPROPRIATE CATEGORY,	(i)	TO THE NEXT	PAGE.
^				#1 }	
Metals	Subcategory: Subpart A		1 3		
			ij		
	Spent electroplating baths and/or sludges				
	Metal finishing rinse water and sludges		1 3		
Ц	Chromate wastes	Indoor			
片	Air pollution control blow down water and	luages	2.5		
님	Spent anodizing solutions Incineration wastewaters		, 4 , 6		
님	Waste liquid mercury				K
Ħ	Cyanide-containing wastes greater than 136	mg/l			
Ħ	Waste acids and bases with or without meta	s			
Ħ	Cleaning, rinsing, and surface preparation s	lutions from electroplating or phosphatir	ŲĻ,	perations	
	Vibratory deburring wastewater				
	Alkaline and acid solutions used to clean m	tal parts or equipment			
<u> Qils S</u>	ubcategory: Subpart B				
	Used oils		Ħ		
片	Oil-water emulsions or mixtures		10		
Ħ	Lubricants			į	
	Coolants	·			
Ħ	Contaminated groundwater clean-up from p	etroleum sources			
	Used petroleum products		i.		
	Oil spill clean-up			생 []	
	Bilge water				
Щ	Rinse/wash waters from petroleum sources				
님	Interceptor wastes				
片	Off-specification fuels Underground storage remediation waste				
H	Tank clean-out from petroleum or oily sour	ces			
H	Non-contact used glycols		i 	## 	
Ħ	Aqueous and oil mixtures from parts cleani	ng operations	H		
	Wastewater from oil bearing paint washes			대 대 대 대	
					, and a second
Orga	nics Subcategory: Subpart C			9	
	7 480 1b-4-		1.3		
H	Landfill leachate Contaminated groundwater clean-up from i	on-netroleum sources			
H	Solvent-bearing wastes	politoream courses	14		K
Ħ	Off-specification organic product		13,		
Ħ	Still bottoms	·			
	Byproduct waste glycol		į į.		
	Wastewater from paint washes		4	2 2 1	Ė
Ц	Wastewater from adhesives and/or epoxies	rormulation		10 11 12 16 16	
닕	Wastewater from organic chemical product	operations	\ ;		Ni.
Ш	Tank clean-out from organic, non-petroleu	pt sources			
				14 15 15 16 17	
	•		1	(# 100 1	
	'			ii ii	F

GATX HEARNE

03/04/2008 15:51

9792793020

PAGE 05

5. Treatment and Handling Protocol: Put in Class 1 solids box 6. Treated Wastewater Discharge Subsategory: Subcategory A Subcategory B ☐ Subcategory C 5

PROCESS FACILITY INFORMATION (CESTUSE ONLY!!)

7.	Tests for Product Recovered/Recycles	(it applicable):			
[NA				
-					•
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j			1		
		;			
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8.	Management for Product Recovered	Recycled (if applicable):	-		
	NA				
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				0 15	
	· ·				
		; ;	:		
	1			S 16	ī.

BASF Corporation

Material Safety Data Sheet

Page

Original Date:

05/21/1992

Revision Date:

10/26/2001

BASE CORPORATION

3000 CONTINENTAL DRIVE NORTH

MOUNT OLIVE. NJ 07828

(973) 426-4671

EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC

(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

NMP

Product ID:

NCI 584384

Common Chemical Name:

1-Methyl-2-pyrrolidone

R3#50076949

Synonyms:

N-Methyl-2-pyrrolidone

Molecular Formula:

C(5)H(9)NO

Chemical Family: Cyclic Amines

Molecular Wt.:

SECTION 2 - INGREDIENTS

Chemical Name:

N-Methylpyrrolidone

CAS 872-50-4 Amount 99.5

PEL/TLV NOT ESTABLISHED

Water

7732-18-5

< 0.1 %

PEL/TLV NOT ESTABLISHED

SECTION 3 - PHYSICAL PROPERTIES

Low/High

Color:

Form/Appearance:

Çlear Liquid - it was saidified of the bottom of the

eail car

Odor:

Odor Intensity:

Amine Mild

Low/High

U.O.M.

Specific Gravity:

1.028

MPAS

DEG C 25 20 DEG.

Viscosity:

1.796

pH:

NOT AVAILABLE

Typical

Typical

Deg.

Pressure

204.3

C 760

MM HG

Boiling Pt: Freezing Pt:

-23.6

C 760 MM HG

Decomp. Tmp:

NOT AVAILABLE

Solubility in Water Description: Miscible Vapor Pressure:

0.32 MILLIBARS X

20 DEG. C XX

Solubility in other solvents: Miscible with many organic solvents

NCI 584384

Page : 2
SECTION 3 - PHYSICAL PROPERTIES (cont)

Octanol/Water partition coefficient (log POW): -0.46
SECTION 4 - FIRE AND EXPLOSION DATA

Typical Low/High Deg. Metho

Flash Point: Autoignition:

91 245 Deg. Method C DIN 51 758 C DIN 51794

Flam. Limits:

1.3 - 9.5 %

Extinguishing Media:

Use water, dry extinguishing media, carbon dioxide (CO2) or foam.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:

Explosion hazard is low when exposed to heat or flames. Can react with oxidizing materials.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Toxicology Test Data:

Rat, Oral LD50 - 4990 MG/KG

Moderately Toxic

Mouse, Oral LD50 - 5270 MG/KG

Slightly Toxic

Rat, Inhalation Safety Screen, 8 hr - SLIGHTLY IRRITATING

No deaths after 8 hour exposure

Rat, 4 hr Inhalation LC50 - > 5.1 MG/L

Moderately Toxic

Rabbit, Primary Skin Irritation - MARKEDLY IRRITATING

TOX TEST RATING NOT FOUND

Rabbit, Eye Irritation - MARKEDLY IRRITATING

TOX TEST RATING NOT FOUND

Rat, 28 day oral study - 257 - 2056 MG/KG

Testicular effects in highest dose group

Rat, 28-Day Feeding Study - NOAEL: 429 MG/KG/DAY

Decreased body weights at high doses

Mouse, 28 day dietary study - NOAEL: 820 MG/KG/DAY

Target organ: kidney

Rat,90 day feeding & neurotoxicity study - @ 169 - 1344 MG/KG/DAY

NOAEL: Low Dose

Mouse, 3 month oral toxicity, dietary - @ 277 - 1931 MG/KG/DAY

NOAEL: Low Dose

Rat, 90 day Inhalation with Recovery - 0, 0.5, 1, 3 MG/L

Testicular effects in highest dose group

Ames Salmonella Assay with or without S9 - NEGATIVE

No increase in mutation frequency

Mouse Lymphoma Assay with or without S-9 - NEGATIVE

SECTION 5 - HEALTH EFFECTS (cont)

No increase in mutation frequency Mouse Micronucleus Test: Bone Marrow - NEGATIVE No clastogenic effects reported Rat, oral 2 year oncogenicity study - @ 66.4 - 939 MG/KG/DAY Not carcinogenic in rats Rat, Inhalation Oncogenicity Study - @ 0.04 & 0.4 MG/L No evidence of carcinogenicity Rat, Oral 2-Gen Reproduction Study - NOAEL: 160 MG/KG/DAY Reduced fertility & pup survival @ 500 Rat, Oral Developmental Toxicity Study - @ 332 & 997 MG/KG/DAY Embryotoxic and teratogenic at high dose Mouse, Oral Developmental Toxicity Study - @ 263 & 1055 MG/KG/DAY Embryotoxic and teratogenic at high dose Rat dermal teratology range finding test - NOEL: 500 MG/KG/DAY Maternal toxicity and embryolethality Rat, Dermal Developmental Toxicity Study - NOEL: 237 MG/KG/DAY Maternal toxicity and embryolethality Rat, Inhalation Developmental Toxicity - @ 0.1 & 0.36 MG/L No maternal or developmental toxicity Rat, Inhalation Developmental/Repro Test - 10, 50, 116 PPM No repro effects; Smaller pups @ 116 ppm Mouse, 18 month oral oncogenicity study - @ 89 - 1399 MG/KG/DAY Increased liver tumors at high dose only Acute Overexposure Effects:

Contact with the liquid can result in irritation. Skin contact should be avoided. Prolonged skin contact may result in redness and dermatitis.

NMP is moderately toxic by all routes of exposure; however, due to its low vapor pressure, dermal exposure represents the primary hazard in most settings. Contact with the liquid results in moderate eye irritation and may cause temporary corneal clouding. Skin contact results in mild irritation; prolonged skin contact may cause redness and dermatitis. Inhalation of the vapors of NMP may result in respiratory irritation. Accidental ingestion of the liquid causes gastric disturbances and may result in nausea and vomiting. Chronic Overexposure Effects:

In animal studies NMP was embryotoxic by the oral, dermal and intraperitoneal routes, but only after repeated high doses that approached the LD50 or were maternally toxic. Embryotoxicity without maternal toxicity was observed at a high concentration in one rat inhalation study, but not in others. Testicular effects in rats were noted after repeated, high-dose oral and inhalation exposures. NMP was not carcinogenic in rats receiving lifetime exposures via inhalation (100 ppm) or the diet. This product contains a chemical known to the state of California to cause birth defects or other reproductive harm. In a mouse cancer study, high doses of NMP produced liver carcinomas & adenomas in males (1089 Mg/kg) and liver adenomas in females (1399 mg/kg). Middle doses caused liver hypertrophy in males (173 mg/kg) but not females (221 mg/kg). No effects were noted at low doses in either males (89 mg/kg) or females (115 mg/kg). First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder

SECTION 5 - HEALTH EFFECTS (cont)

contaminated clothing before reuse. If irritation develops, get medical attention. First Aid Procedures - Eyes: Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention. First Aid Procedures - Ingestion: If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention. First Aid Procedures - Inhalation: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention. First Aid Procedures - Notes to Physicians: Not applicable. First Aid Procedures - Aggravated Medical Conditions: No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects (if any) observed in animals. First Aid Procedures - Special Precautions: Not applicable.

SECTION 6 - REACTIVITY DATA

Stability Data: Stable

Incompatability:

Oxidizing reagents and strong acids.

Conditions/Hazards to Avoid:

See Reactivity - Incompatibility section.

Hazardous Decomposition/Polymerization:

Hazardous decomposition products: CO, CO2 and NOx.

Polymerization: Does not occur.

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:

Manufacturer recommends the use of butyl rubber or FEP teflon gloves, coveralls, apron, and boots as necessary to prevent skin contact. Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists. Respiration:

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator or an air-supplied respirator as appropriate. Ventilation:

Use local exhaust to control to recommended P.E.L.

Explosion Proofing:

See Section 4 - Fire and Explosion Data.

NMP

NCI 584384

SECTION 7 - PERSONAL PROTECTION (cont)

Page: 5

PECITOR / " PERSONAL PROTECTION

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible. Shower after handling.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained, solidifed, and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Environmental Toxicity Test Data:

Elimination (method not specified) - > 90 PERCENT

Readily Biodegradable

Biological Oxygen Demand, 5 day - 1100 MG/L

Readily Biodegradable

Chemical Oxygen Demand - 1600 MG/L

Readily Biodegradable

Golden Orfe, static 96 hr LC50 - 4000 MG/L

Insignificant Hazard

Daphnia Magna, 24 hr EC/LCS0 - > 1000 MG/L

Insignificant Hazard

Acute Algal Toxicity, 72 hr. EC/LC50 - > 500 MG/L

Practically Nontoxic

Toxicity to Bacteria - > 9000 MG/L

Insignificant Hazard

SECTION 9 - STORAGE AND HANDLING

General:

Avoid exposure to moisture; this product is hygroscopic.

Keep containers closed.

Other Storage and Handling Data:

Consult other sections of this MSDS for information on reactivity and flammability.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: Y

YES

SARA - 313 Listed Chemicals:

CAS: 872-50-4

AMOUNT: 99.8 %

NAME: N-Methylpyrrolidone

RCRA Haz. Waste No .: NA

CERCLA: NO Reportable Qty.: (If YES)

NMP is subject to the reporting requirements of SARA Title III,

NCI 584384

Page: 6

SECTION 10 - REGULATORY INFORMATION (cont)

Section 313 and 40CFR372.

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS .

872-50-4

NAME: N-Methylpyrrolidone

7732-18-5

NO

CAS: NAME:

Water

This product contains one or more chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Hazard Ratings:

Health:

2

Fire:

Reactivity: Special:

0

٥

HMIS NFPA 2*

2 2

NA MA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

SEE BELOW

DOT Technical Name:

SEE BELOW

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

BASF Commodity Codes:

Bill of Lading Description:

UN/NA Code: NA NA

E/R Guide:

<119 GALLONS, NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION >119 GALLONS, COMBUSTIBLE LIQUID, NOS, (N-METHYL PYRROLIDONE), NA1993, PGIII

"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL

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EPAHO108002009

NMP

NCI 584384

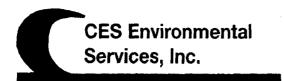
Page: 7

SECTION 11 - TRANSPORTATION INFORMATION (cont)

TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET

Calpine Baytown Energy Zehtel



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Lue Miller

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2634

Expiration Date 3/6/2010

Generator: Calpine Baytown Energy Center

Address: 8605 FM 1405

Baytown, TX 77520

Waste Information

Name of Waste: Non-hazardous wastewater

TCEQ Waste Code #: 00201142

Container Type:

Detailed Description of Process Generating Waste:

Non-haz wastewater gnerated from chemical cleaning of HRSG unit. This would include cleaning spent products (neutralized), flush rinse waters and metal scales from HRSG un (MSDS attached). No hydrocarbons are present in the process or in the unit.

Color: red to brown or black Odor: slight amine pH: 4-11.5

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

ppe LEVEL b AND c

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

03/03/08	14:10 FAX	4256404998	SW	C BILLING D	EPT			2 1002
MAR-03-200	8 15:52	CES	enviromenta	L			137488664	P.003
an						· // //	letals are	level not by sulfs - no sa clared. Total
SIN	1			CES Enviro		<i>y</i> – <i>y</i>	tals deel	laval not W
- Chen Comp up Amnonia . thi (2 50,000 ppm) an odorous. thi	10 5%	of Agua		Services, l	nc.	_	FCL P 16	sults - no sa
America th	c is very	high Ammenia	4 Griggs Ros	ď	Houston, T	X 77021	matrix de	clared. Total
(- CODUDAT)	e conto	he rent Pho	one: (713) 67		Fax: (713)	676-1676	OB	NUMBER OVER 11
adoness this	s is too	right of	http://w	ww.cesenviro			シシ	he very hig
73.		T Allk	CEQ Industr	ial Solid Was				V
- TOC word	ppm Not	<u> </u>	SPA ID No:	TXD00895040	01 12MF	R No: 3090		
SECTION	I Company	tor Information		-		•		
Company:		Calpine Baytown	Energy Center					
Address:		8605 FM 1405						
City, State	, Zip:	Baytown, TX 77.	522					
Contact: Phone No:		Dan Bowman 713-854-6150			Title: Fax No:	Manager 713-676-	1696	
24/hr Phoi		713-676-1460			FRX No.	113-070-	10/0	····
U.S. EPA		TXR000043976			•			
State LD.		00201142			SIC Code:			
OF OFFICE	. D.	T-6		_				,
<u>SECTION</u> Company:		Information — Calpine Billing Cer	Same as Abov	<u>'e</u>				
Address:	. -	Suprice Dring 40.						
City, State	, Zip:							
Contact:	;			Title:				
Phone No:		···		_ Fax No:				
SECTION	i 3: Genera	l Description of t	he Waste					
-								
Name of V	Vaste: Non	- <u>Hazardous Waste</u> of Process Genera	Water	iam T Faans days				
This would	l include cle	aning spent produ	ning waste. <u>N</u> ets (Neutralized). flush rinse w	waste water ge aters and metal	l scales from	HRSG unit (MS	SDS sheet
		rbons are present i			4	1 -1	T. F 1 . 3	-
Dhanian C	4-4	M Tianis	[] Sinda	. ? <i>7</i> _	Powder		ć	
Physical S	tate:	∠ Liquid ☐ Solid	∐ Sludge ☐ Filter	·	Combinatio			
	.	C Soud	Filter	Carce _	7 COMPRIME	ήĦ		
Color: Red	1 to Brown	or Black	Odor: Slight A	<u> mine</u>				
					. , 1			
Specific G	ravity (wat	er=1): <u>-95-1</u>	L Densi	ty: 8-01	65/gal			
	<u> </u>			=	67			
Does this 1	material co	ntain any total ph	enolic compou	nds? L Yes	⊠ No			
Does this r	material co	ntain any para su	bstituted phen	olic compound	s? 🗌 Yes (⊠ No		
			•	_				
Layers:		Single-phase		fulti-phase				
Containan	Tymes	Drum	☐ Tote	×	Tomale		Oth on (a—lair	-\
Container Container	!	Drum		\times	Truck <u>5 - 5500</u>	u	Other (explain	1)
Container	3124.		•	_	<u>3 - 5500</u>			
Frequency		☐ Weekly	Mon!	hiv 🗆	Quarterly		Yearly	
		ntainers): 1	_		Quarterry		1 early	
	te Waste Co		201142	•				
	Proper U.S. DOT Shipping Name: Non-RCRA/Non DOT Regulated Waste Water							
-	i			CACAMINON DO				
Class:	N/A	UN	NA: N/A		PG: N	/A 	RQ:	N/A
	<u></u>					_	•	

MAR-03-2000 15:52 CES ENVIROMENTAL

7137400664

P.004

Flash Point	pH 4-11.5	Reactive Sulfides		Solids 0 - 2%
N/A Oil&Grease	TOC	Zine	Copper Nickel	<u>U 2%</u>
<1mg/l	N/Amg/I	N/Amor Unknow	WAMEN LENKNOWN WAMEN	Vaniso
-1100/1			THE PARTY OF THE P	VIVEROS
SECTION 4: PI	nysical and Chemical	<u>Data</u>	3,1:15 <2	
		MISTERIEU	Candantiation	
	he waste consists of	the following materials	Ranges are accept:	able or %
Oil and Grease Water			10.95	%
Aqua Amma			0 5	%
Foreign Debris	1		0-2	%
ChelClean 665			0-5	1%
L Haz Corrosion			0-5	- %
Hubert en Perc	xide 41 3590		0-5	26
SECTION 5: SE	ifety Related Data		6-5	90
	1	the use of special protective		10
PPE Level > 2-	198 Maste requires	the use of special protective	ефирмент, разва ехрана.	
		.		
	ttacked Supporting D			_
Generator Knowl		r analysis attached to this 10	rm as part of the waste approval	package.
SECTION 7: In	<u>compatibilities</u>			
Please list all inc N/A	ompatibilities (if any):		
SECTION 8: G	enerator's Knowledg	e Documentation		
Laboratory anal generator knowl		waste churacteristics, listed	below, WAS NOT PERFORME	D based upon the following
TCLP Metals:	N/A - TCC	p Analysis p Analysis me in Process	·	
TCLP Volatiles: TCLP Semi-Vol	ntiles: N/A ~ AA	m in the cc 21		
Reactivity:				
Corrosivity:	$\overline{N/A} > T$	LP Amlysis		
Ignitability:	N/A			
SECTION 9: G	enerator's Certificati	on		
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Authorized Sign	ature: Rufu	y Uma	Date: 03/03/0	<u>8</u>
Printed Name/T	itle: Richard Dai	non / Plant Engine	cr	

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SEC	CTION 10: Wa	ste Receipt Cl	assification Und	er 40 CFR 4	37		
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Is t	his material a wa	stewater or wa	stewater sludge?	图 YES	□ NO		
If "	Yes', complete th	nis section.					
	_						
PL	EASE CHECK I	THE APPROP	RIATE BOX. II	NO APPRO	OPRIATE CATEGORY	, GO TO THE NEXT PA	GE.
	.						
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	Oil spill clean-u						
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CES ENVIROMENTAL

7137488664

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

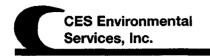
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	·16[gal
	Acally plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
	No Surcharges till 15,000 TOC
4.	Special Testing Requirements:
	metals, pay attention to COH metals; pH, TOC, phenol, solids, metals TOC. This stream may have to be redirected to Newpork because of ammonia oder. If a load is bhought to CES please call Dan Bowman and alert him.
	This stream may have to be redirected to Newpark
	because of ammonia oda. If a load ubhought to CES
	please Call Dan Bowman and alled him.
5.	Treatment and Handling Protocol:
	totals subcatagory met c subcategory
	anguis subtategety
	Dan said these roads will be going to
	Angenics subcategory Dan said these loads will be going to Newpork. Do not open the dome hid without proper PPE.
_	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

. Tests for	r Product Recovered/Recycled (if applicable):
N^ /\$	
. Manag	ment for Product Recovered/Recycled (if applicable):
N	ra-
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MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Aqua Ammonia

Product Code: M011

Product Name: Aqua Ammonia Chemical Family: Alkali Molecular Formula: NH₄OH

Generic Name: Ammonium Hydroxide, Ammonia Water

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave.

Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt.%</u>	CAS Registry #
Ammonium hydroxide	~57	1336-21-6
Water	~43	7732 -18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS
OSHA PEL ACGIH TLV Supplier

Ammonium hydroxide

50 ppm 25 ppm

COMMENTS:

The OSHA PEL and ACGIH TLV are for ammonia gas. Equivalent NH3 content - approximately 29% by wt.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Clear liquid with a strong ammonia odor

IMMEDIATE CONCERNS:

Corrosive.

Do not get in eyes, on skin or clothing.

Do not breath vapors



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

MEDICAL CONDITIONS AGGRAVATED:

Persons with impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.

INGESTION:

Do not induce vomiting. Give 2 glasses of water containing lemon or orange juice. Take to hospital at once.

INHALATION:

If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin arti-cial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable Flammable Limits: 15% to 28%

Autoignition Temperature: 1436°F

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Ammonia and oxides of nitrogen.

EXPLOSION HAZARDS:

Vapors may form explosive mixture with air.



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

COMMENTS:

Flammable limits and autoignition temperature are for anhydrous ammonia.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Dilute with water.

Neutralize with dilute acid or solid citric acid.

Put in plastic drums.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

Container may need pressure relief device.

Open container cautiously.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

Use NIOSH approved respirator with ammonia protection (color coded green). Use SCBA (self contained breathing apparatus) in confineed areas and for emergencies.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Pungent Color: Colorless

pH: 13.6

Percent Volatile: 100

Vapor Pressure: 115 mm Hg at 20°C

Vapor Density: 1.2 (Air = 1) Boiling Point: 80°F 27°C

Solubility in Water: Completely Miscible in All Proportions

Speci⁻c Gravity: 0.9 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION: Ammonia and oxides of nitrogen.

INCOMPATIBLE MATERIALS: Oxidizers, Acids, Aluminum

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts. Ingestion: Toxic. Corrosive. Causes pain and severe burns to mouth, throat and stomach. Can cause illness or death.

Inhalation: Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.

TARGET ORGANS:

Respiratory tract

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: BQ9625000 (ammonium hydroxide)

LD50 (rats) = 350 mg/kg

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: LC50 (P. promelas) = 8.2 mg/L (96 hr)

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Ship via permitted waste hauler to permitted hazardous waste disposal facility for chemical deactivation, solidification and landfilling (preferred) or disposal well injection. Neutralized material may be acceptable in sanitary sewers; check local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Ammonia Solution

Hazard Class: 8

NA/UN Number: UN2672

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: 235 gal

Placards: Corrosive Label: Corrosive - 8



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

SPECIAL SHIPPING NOTES:

Material is a HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE. Add the letters RQ to the beginning of the shipping description if the RQ amount is met or exceeded in a single container.

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard



DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: Yes

313 Reportable Ingredients: Ammonia (27-31%)

Title III Notes: This product contains substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 235 gal

EPA

EPA RQ Ingredient: Ammonium hydroxide

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive e®ects.

CANADA

WHMIS Classification: E- Corrosive Material, D1A - Very Toxic Material

16. OTHER INFORMATION

REASON FOR ISSUE:

Update

Approval date: 3/22/2005



DATE PREPARED: 3/22/2005

MSDS No: M011
Aqua Ammonia

REVISION SUMMARY Revision #: 4

This MSDS replaces the February 7, 2000 MSDS. The following changes were made.

In Section 15
WHMIS Classification was added.

NFPA CODES

Fire: 1 Health: 3

Reactivity: 0

HMIS CODES

Fire: 0 Health: 3

Reactivity: 0

MANUFACTURER DISCLAIMER:

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The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 02/07/2005

MSDS No: V665

ChelClean™ 665 Chelating Agent

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identi⁻er: ChelClean™ 665 Chelating Agent

Product Code: V665

Product Name: ChelClean™ 665 Chelating Agent

Chemical Family: Chelant

Generic Name: EDTA, diammonium salt

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt.%</u>	CAS Registry #
Diammonium ethylenediaminetetraacetate	44.5	20824-56-0
Water	\sim 55	7732 -18-5

COMMENTS:

Exposure limits for this product are not established.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW PHYSICAL APPEARANCE:

Light yellow liquid

IMMEDIATE CONCERNS:

Irritating to eyes, respiratory system and skin.

MEDICAL CONDITIONS AGGRAVATED:

None speci⁻ed by manufacturer

ROUTES OF ENTRY:

Eye and skin contact

4. FIRST AID MEASURES

EYES:

Immediately "ush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.



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MSDS No: V665

ChelClean™ 665 Chelating Agent

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if e®ects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if e®ects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C Penskey-Martens, CC

Flammable Limits: Not applicable

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when "ghting "res involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

When heated to decomposition, ammonia, oxides of carbon and nitrogen, cyanides and harmful organic fumes are released.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any re, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbant (dry sand, vermiculite, earth).

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.



DATE PREPARED: 02/07/2005

MSDS No: V665

ChelClean™ 665 Chelating Agent

STORAGE:

No special precautions required. Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from liquid mist, use NIOSH approved respirator with mist protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Ammonia Color: Light yellow

pH: 5.0

Percent Volatile: 55

Vapor Pressure: Not Determined Vapor Density: Not Determined Boiling Point: 219°F 104°C Freezing Point: 7°F -14°C

Solubility in Water: Completely Miscible in All Proportions

Speci⁻c Gravity: 1.21 at 25°C

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No



DATE PREPARED: 02/07/2005

MSDS No: V665

ChelClean™ 665 Chelating Agent

HAZARDOUS DECOMPOSITION:

When heated to decomposition, ammonia, oxides of carbon and nitrogen, cyanides and harmful organic fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizing materials.

Contact with aluminum releases hydrogen.

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No e®ect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No e®ect expected. Swallowing large amounts may cause illness.

Inhalation: No e®ect expected. Prolonged or repeated exposure may cause mild irritation. Mist

is irritating.

TARGET ORGANS:

No data found

GENERAL COMMENTS:

Carcinogens: Not

Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic E®ects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rats) > 2,000 mg/kg

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable. Fish Toxicity: No information

COMMENTS:

LC(50) (P. promelas) ranges from 200 to 1000 mg/L for related materials.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



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ChelClean™ 665 Chelating Agent

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary land-II unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: V665 Chelating Agent - Not Regulatred

Reportable Quantity (RQ) Under CERCLA: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: No

313 Reportable Ingredients: Ammonia (4.69%)

Title III Notes: Ammonia includes anhydrous ammonia and aqueous ammonia from water, dissociable ammonia salts and other sources.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are de ned by the state of California to cause cancer, birth defects, or other reproductive e®ects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Update

Approval date: 02/07/2005



DATE PREPARED: 02/07/2005

MSDS No: V665

ChelClean™ 665 Chelating Agent

REVISION SUMMARY Revision #: 6

This MSDS replaces the January 2 2, 2001 MSDS.

NFPA CODES

Fire: 0 Health: 1 Reactivity: 0

HMIS CODES

Fire: 0 Health: 1 Reactivity: 0

MANUFACTURER DISCLAIMER:

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The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identi⁻er: Low-Hazard Corrosion Inhibitor A300

Product Code: A300

Product Name: Low-Hazard Corrosion Inhibitor A300

Chemical Family: Inhibitor

MANUFACTURER:

900 Georgia Ave.

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

Deer Park, TX 77536 Customer Service: (800) 934-9376

HydroChem Industrial Services, Inc.

2. COMPOSITION/INFORMATION ON INGREDIENTS

wt.% CAS Registry #

Proprietary Aqueous Solution of Organic Surfactants (trade secret)

100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

COMMENTS:

Exposure limits for this product have not been established.

4. FIRST AID MEASURES

EYES:

Immediately °ush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water for 30 minutes. See a doctor at once. Launder contaminated clothing before reuse. Dispose of contaminated shoes.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking 'nger down throat. After vomiting give milk (preferred) or water and consult physician.



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

INHALATION:

Remove to fresh air. See a doctor if e®ects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C Penskey-Martens, CC

Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when "ghting "res involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and harmful organic chemical fumes.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any re, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbant (dry sand, vermiculite, earth).

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required. Store away from oxidizers.



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Strong Sulfur Color: Amber

pH: 2.5

Percent Volatile: Not Determined Vapor Pressure: Not Determined Vapor Density: Not Determined Boiling Point: Not Determined Freezing Point: 12°F -6°C

Solubility in Water: Completely Miscible in All Proportions

Speci⁻c Gravity: 1.010 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Not Determined

INCOMPATIBLE MATERIALS:

Oxidizing materials.



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DATE PREPARED: 3/23/2005

MSDS No: A300 Low-Hazard Corrosion Inhibitor A300

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild

Skin: Irritant. May cause pain, redness, dermatitis. May be absorbed in toxic amounts.

Ingestion: Harmful if swallowed. Large amounts may cause illness or death.

LD(50) (rats, oral-acute) = 1.144 g/kg

Inhalation: Not Determined

TARGET ORGANS:

Not Determined

GENERAL COMMENTS:

Carcinogenicity not determined

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability:

5-day BOD - 0.037 p/p Total COD - 1.45 p/p TOC - 5,000 mg/L

Fish Toxicity:

LC(50) C. dubia (serial renewal - 24 hr) - 7.1 mg/L LC(50) P. promelas (serial renewal - 24 hr) - 22.1 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary land-II unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

COMMENTS:

Always follow ALL applicable federal, state and local regulations.



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Corrosion Inhibitor A300 { NOT REGULATED

Placards: None Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No

Pressure Generating: No

Reactivity: No

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are de ned as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are either on the TSCA inventory or are exempt from the reporting requirements.

CANADA

WHMIS Classification: Class D, Division 2, Subdivision B, Poisonous & Infectious Material, Materials causing other toxic effects, Toxic Material

16. OTHER INFORMATION

Approval date: 3/23/2005

REVISION SUMMARY

Revision #: 12

This MSDS replaces the February 7, 2005 MSDS. Any changes in information are as follows:

In Section 15

Added WHMIS Classification

NFPA CODES

Fire: 1

Health: 2

Reactivity: 0

HMIS CODES

Fire: 1

Health: 2

Reactivity: 0



DATE PREPARED: 3/23/2005

MSDS No: A300

Low-Hazard Corrosion Inhibitor A300

MANUFACTURER DISCLAIMER:

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

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MATERIAL SAFETY DATA SHEET

HydroChem® INDUSTRIAL SERVICES, INC.

Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Antifoam Agent M246

Product Description: Antifoam Agent M246

Product Code: M246

Product Name: Antifoam Agent M246

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact:

 ${\bf HydroChem\;ER}$

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

wt.% CAS Registry #

Proprietary Mixture of Organic Compounds (trade secret)

COMMENTS:

Component Expourre Limits:

Aliphatic Alcohol Derivative (OSHA PEL = mg/m3, ACGIH TLV = 1 mg/m3)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Clear light yellow liquid with alcohol odor.

IMMEDIATE CONCERNS:

Combustible liquid.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing disorders of the skin.

ROUTES OF ENTRY:

Skin and eye contact and inhalation

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

SKIN:

Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: 195°F 91°C SETA Flash CC

Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

GENERAL HAZARD:

Vapors may travel along the ground and ignite when an ignition source is contacted.

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and harmful organic chemical fumes.

EXPLOSION HAZARDS:

Vapors may form explosive mixture with air.

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic or steel drum.

Soak up residual on inert absorbant (sand).



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

Keep away from heat, sparks, and flame. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from liquid mist, use NIOSH approved respirator with mist protection.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Alcoholic Color: Light yellow pH: Not Determined Percent Volatile: 76.5

Vapor Pressure: 0.05 mm Hg at 20°C Vapor Density: Not Determined Boiling Point: >360°F 182°C Freezing Point: Not Determined Solubility in Water: Low Specific Gravity: 0.87 (water=1)



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID:

Keep away from heat, sparks and flame.

HAZARDOUS DECOMPOSITION:

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizing materials

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Ingestion: Harmful if swallowed. Large amounts may cause illness or death.

Inhalation: Irritant. May cause pain and coughing. May cause headache, narcosis.

GENERAL COMMENTS:

LD50 (female rats) = 2000 mg/kg

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry(s) in RTECS for complete information.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable. Fish Toxicity: No information

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Combustible Liquid, NOS (contains 2-ethyl-1-hexanol)

Combustible Class: Yes NA/UN Number: NA1993

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: None

Placards: Combustible Liquid

Label: None

SPECIAL SHIPPING NOTES:

Not regulated in containers with a capacity less than 120 gallons.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: Yes Pressure Generating: No Reactivity: No Acute: Yes

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) Reportable Spill Quantity: Not Established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

Chronic: No



DATE PREPARED: 12/22/2000

MSDS No: M246

Antifoam Agent M246

REGULATIONS

State Regulations: This product contains the following chemicals on the Massachusetts Hazardous Substance List: 2-ethyl-1-hexanol.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 11/03/2000

REVISION SUMMARY

Revision #: 7

This MSDS replaces the November 01, 1999 MSDS. Any changes in information are as follows:

In Section 1

Approved by Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 15

SARA Title III Notes

NFPA CODES

Fire: 2 Health: 2

Reactivity: 0

HMIS CODES

Fire: 2

Health: 2

Reactivity: 0

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The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

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MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

Product Identifier: Hydrogen Peroxide, 4 & 35%

Product Code: M240

Product Name: Hydrogen Peroxide, 4 & 35%

Chemical Family: Oxidizer Molecular Formula: H₂O₂

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave. Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE

NUMBERS:

Emergency Contact: Emergency Phone

HydroChem ER (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Registry # wt.%

Hydrogen peroxide

4 & 35 7722-84-1

Water

Balance 7732-18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS OSHA PEL ACGIH TLV Supplier

Hydrogen peroxide

1 ppm 1 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Clear, colorless, odorless liquid

IMMEDIATE CONCERNS:

Strong oxidizer. Contact with combustible materials may cause a re.

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Skin and eye contact and inhalation



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.

INGESTION:

Do not induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.

INHALATION:

If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable Flammable Limits: Not Applicable Autoignition Temperature: None

GENERAL HAZARD:

This material does not burn, but as an oxidizer it will support combustion of other materials.

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when "ghting "res involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Oxygen

FIRE FIGHTING PROCEDURES:

Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:

As in any re, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Dilute with a large volume of water and hold in a pond or diked area until H_2O_2 decomposes. Alternately, after diluting to about 5%, decompose by adding sodium metabisulfite or sodium sulfite. Wash combustable materials exposed to H_2O_2 with large amounts of water. Do not allow to dry before washing Upon evaporation, hydrogen peroxide can concentrate on organic materials and can cause ignition and a fire.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

Avoid contact with clothing, organics, or other combustible materials. Do not store or transport with corrosive materials or combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) in nonventilated area and/or exposure above TLV. Use SCBA (self-contained breathing apparatus) in con⁻ned areas and for emergencies.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colorless

pH: 3.3

Percent Volatile: 100

Vapor Pressure: 23.3 mm Hg at 30°C

Vapor Density: 1.1 (Air = 1) Boiling Point: 226°F 108°C Freezing Point: -27°F -33°C

Solubility in Water: Completely Miscible in All Proportions

Evaporation Rate: >1 (n-Butyl Acetate=1)

Speci⁻c Gravity: 1.13 (water=1)

10. STABILITY AND REACTIVITY

STABILITY:

Decomposes with heat.

POLYMERIZATION:

No hazardous polymerization.

HAZARDOUS DECOMPOSITION:

Oxygen

INCOMPATIBLE MATERIALS:

Acid, reducing agents, organics

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.

Ingestion: Corrosive. Causes pain and severe burns to mouth, throat and stomach.

Inhalation: Irritant. May cause pain and coughing.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

COMMENTS:

Only selected Registry of Toxic E®ects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rats) = 4,060 mg/kg

RTECS Number: MX0899000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: No Observable E®ect Concentration (P. promelas) = 5 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Ship via permitted waste hauler to permitted hazardous waste disposal facility for chemical deactivation and solidi⁻cation prior to land ⁻Iling.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary land-II unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

RCRA Hazardous Waste Number: D003

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Hydrogen Peroxide, aqueous solution

Hazard Class: 5.1

NA/UN Number: UN2014

Packing Group: II

Reportable Quantity (RQ) Under CERCLA: None

Placards: Oxidizer

Label: Oxidizer - 5.1, Corrosive - 8



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard



DOT Corrosive



DOT Oxidizer

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: Yes

Pressure Generating: No

Reactivity: Yes

Acute: Yes

Chronic: No

Title III Notes: This product contains no substances which are de ned as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are de ned by the state of California to cause cancer, birth defects, or other reproductive e®ects.

CANADA

WHMIS Classification: C- Oxidizing Material, E- Corrosive Material, F - Dangerously Reactive Material, D2A - Very Toxic Materials

16. OTHER INFORMATION

REASON FOR ISSUE: Addition of 4% concentration

Approval date: 4/12/2005



DATE PREPARED: 4/12/2005

MSDS No: M240

Hydrogen Peroxide, 4 & 35%

REVISION SUMMARY Revision #: 5

This MSDS replaces the March 8, 2005 MSDS. Changes in information are as follows: Throughout MSDS

Addition of 4% concentration

NFPA CODES

Fire: 0 Health: 2 Reactivity: 1

HMIS CODES

Fire: 0 Health: 2 Reactivity: 1

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Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840

Baytown, TX 77521

Phone: (281) 303-4216

Fax: (281) 303-4299

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

739454

MES Lab#:

8020555

Client Sample ID:

Frac. Tank #1

LES

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

3 @ 7:30:00 AM Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:01:00 AM

Test Group / Method					
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Antimony	0.032	1	0.075	mg/L	2/29/2008 / 3:01 PM
Arsenic	0.014	5	< 0.014	mg/L	2/29/2008 / 3:01 PM
Barium	0.0005	100	0.0842	mg/L	2/29/2008 / 3:01 PM
Beryllium	0.0005	80.0	< 0.0005	mg/L	2/29/2008 / 3:01 PM
Cadmium	0.002	1	0.008	mg/L	2/29/2008 / 3:01 PM
Chromium	0.002	5	0.252	mg/L	2/29/2008 / 3:01 PM
Lead	0.005	`5	0.020	m q/L	2/29/2008 / 3:01 PM
Nickel	0.003	70	0.192	mg/L	2/29/2008 / 3:01 PM
Selenium	0.024	1	< 0.024	mg/L	2/29/2008 / 3:01 PM
Silver	0.002	5	0.004	mg/L	2/29/2008 / 3:01 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: TFR Date / Time
Mercury	0.0008	0.2	< 0.0008	mg/L	2/29/2008 / 2:21 AM
TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.10	0.2	< 0.10	rng/L	2/28/2008 / 5:37 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	2/28/2008 / 5:37 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2008 / 5:37 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2008 / 5:37 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2008 / 5:37 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	2/28/2008 / 5:37 PM
Benzene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 5:37 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 5:37 PM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	2/28/2008 / 5:37 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2008 / 5:37 PM
1,4-Dichloropenzene	0.05	7.5	< 0.05	mg/L	2/28/2008 / 5:37 PM

Report Date: 29-Feb-08

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8020555

Client Sample ID:

Frac. Tank #1

Sample Collect Date: 2/25/2008 @ 7:30:00 AM Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Sample Type:

Grab

Hexacilorobutadiene	0.05	0.5	< 0.06	mg/L	2/28/2008 / 5:37 PM
				•	
Reactivity, Recoverable Hydrog	gen Cyanide				Analyst: CL
Method: 7,3.3.2	MDL		Result	Units	Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/27/2008 / 2:00 PM
Reactivity, Recoverable Hydrog	jen Sulfide				Analyst: CL
Method: 7.3.4.2	MDL	_	Result	Units	Date / Time
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/27/2008 / 9:45 AM
Corrosivity: pH					Analyst: JE
Method: SW-846 9045	MDL		Result	Units	Date / Time
pH			8.64		2/25/2008 / 3:45 PM
Ignitability					Analyst: DEB
Method: SW-846 1010	MDL		Result	Units	Date / Time
Flashpoint			>150	deg F	2/27/2008 / 12:50 PM
TOC (Combustion)					Analyst: HDG
Method: SM 5310B	MDL		Result	Units	Date / Time
Total Organic Carbon	1		1890	mg/L	2/29/2008 / 2:15 AM

RL=regulatory limit	L: Below "Low Limit"	Flags: H: Exceeds "High Limit"
Eriday Fahruary 20 2008		M:
Friday, February 29, 2008		///

Holland D. Gilmore, Laboratory Director

Date

Page 2 of 2 Report Date: 29-Feb-08

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840

Phone: (281) 303-4216 (281) 303-4299

Baytown, TX 77521

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

MES Lab#:

8020560

Client Sample ID:

Frac. Tank #6

259321

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Test Group / Method					
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Antimony ,	0.032	1	< 0,032	mg/L	2/29/2008 / 3:42 PM
Arsenic	0,014	5	< 0.014	mg/L	2/29/2008 / 3:42 PM
Barium	0.0005	100	0.0848	mg/L	2/29/2008 / 3:42 PM
Beryllium	0.0005	80.0	< 0.0005	mg/L	2/29/2008 / 3:42 PM
Cadmium	0.002	1	0.012	mg/L	2/29/2008 / 3:42 PM
Chromium	0.002	5	0.338	mg/L	2/29/2008 / 3:42 PM
Lead	0.005	5	0.033	mg/L	2/29/2008 / 3:42 PM
Nickel	0.003	70	0.307	mg/L	2/29/2008 / 3:42 PM
Selenium	0.024	1	< 0.024	mg/L	2/29/2008 / 3:42 PM
Silver	0.002	5	0.004	mg/L	2/29/2008 / 3:42 PM
			7		
TCLP Mcrcury Method; SW-846 7470A	MDL	RL	Result	Units	Analyst: TFR Date / Time
Mercury	0,0020	0.2	< 0.0020	mg/L	2/29/2008 / 2:31 AM
The same property					
TCLP Volatiles		-	7.7.7.7.		Analyst: HDG
Method: SW-846 8260B	MDL	RL	Result	Units	Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	2/28/2008 / 8:36 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	_mg/L	2/28/2008 / 8:36 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2008 / 8:36 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2008 / 8:36 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:36 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:36 PM
Benzene	0.05	0.5	< 0.05	mg/L	2/28/2008 /8:36 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:36 PM
Tetrachioroethene	0.05	0.7	≺.0.05	mg/L	2/28/2008 / 8:36 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2008 / 8:36 PM
1.4-Dichlorobenzone	0.05	7,5	< 0.05	mg/L	2/28/2008 / R:36 PM

Report Date: 29-Feb-08

- CERTIFICATE OF RESULTS -

MES Lab#:

8020560

Client Sample ID:

TOC (Combustion)

Method: SM 5310B

Total Organic Carbon

Frac. Tank #6

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Sample Type:

Grab

Analyst: HDG

2/29/2006 / 2:15 AM

Date / Time

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:36 PM
Reactivity, Recoverable Hydrog	gen Cyanide				Analyst: CL
Method: 7.3.3.2	MDL		Recuit	Units	Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/27/2008 / 2:00 PM
Reactivity, Recoverable Hydrog	gen Sulfide				Analyst: CL
Method: 7.3.4.2	MDL		Result	Units	Date / Time
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/27/2008 / 9:45 AM
Corrosivity: pH					Analyst JE
Method: SW-846 9045	MDL		Result	Units	Date / Time
рН			8.48		2/25/2008 / 3:45 PM
Ignitability					Analyst; DEB
Method: SW-846 1010	MDL		Result	Units	Date / Time
Flashpoint			>150	deg F	2/27/2008 / 11:50 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

MDL

Holland D. Gilmore, Laboratory Director

A CALL PROPERTY OF THE

452.62

Friday, February 29, 2008

Units

mg/L

Result

2660

8020555 - 8020556

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	CHECK STD	ICS %REC
Antimony Arsenic Barium	< 0.032 < 0.005 < 0.002	103.8 100.3 101.0	98.8 91.9 97.6	4,69 6.72 3.48	< 0.032 < 0.005 < 0.002	96.5 98.3 92.6	118.0 106.0 92.4	96.4 90.4 86.1
Beryllium	< 0,002	90.9	95.9	5.36	< 0.002	92,6	93.6	93.5
Cadmium	< 0.001	95.3	91.9	3.58	< 0.001	88.1	91 6	83.4
	< 0.001 < 0.002	106.5 97.4	107.8 98.3	1.21 0.95	< 0.001 < 0.002	92.9 93.0	96.4 93.9	90.7 82.3
	< 0.002	101.0	97.5	3,53	< 0.0002	102.0	100.0	02.5
	< 0.001	103.0	104.0	0.97	< 0.001	94.3	95.2	85.3
	< 0.024 < 0.001	104.0 101.4	93.5 97.8	10.69 3,61	< 0.024 < 0.001	96.3 97.2	97.8 96.0	94.1 90.6
ANALYTE		STD	·			· 		
Flashpoint		82°F						
	BUFFER 7.0	ORIG	DUP	RPD			·	
Н	7.0	9.95	9.95	0.00				
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD				
Reactivity as Hy	drogen Sulfide	< 0.25	< 0.25	0.00		and a second sec		
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD	STD %REC			
Reactivity as Hyd	drogen Cyanide	< 0.25	Arr Day Ser	0,00	105			
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	MB CCV mg/L %REC	LCS %REC	LCSD %REC	RPD	4 14 14		A STATE OF THE STA	
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- Mercury Environmental Services, Inc.

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8020555 - 8020560 Page 2						
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EPAHO108002057

COMPANY NAME: (BILL TO:) COMPANY ADDRESS: RCOS	Pine - Dayton FA 1405	Energy	Centr		MES - CHAIN OF CUSTODY Mercury Environmental Services						(281)	771-4ME 476-453	34			
Raytown.	RANTUUM STATE TX 7112 77521					Mercury Environmental Services Fax (281)-476-44 6913 Hwy. 225 • Deer Park, TX 77596							<i>A</i>			
CONTACT PERSON'S NAME: ALS	k Damon		411					TERS I	FOR AN	IALYS	6	, 		RE	MARKS	
CONTACT PERSON'S PHONE: 281	-707-4216					Pare (Mark)	1,1		. /	1/	1	/,		FUAN.	AROUND TIME	E i
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From W MES - GCAI														1 43	1.1	

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840 Baytown, TX 77521 Fax:

(281) 303-4299

Phone: (281) 303-4216

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

259956

MES Lab#:

8020556

Client Sample ID:

Frac, Tank #2

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Test Group / Method TCLP Metals (11) Analyst: HDG Method: SW-846 6010B Date / Time MDL RL Units Result Antimony 0.032 1 0.148 mg/L 2/29/2008 / 3:08 PM 5 Arsenic 0.014 < 0.014 mg/L 2/29/2008 / 3:08 PM Barlum 0.0005 100 0.223 mg/L 2/29/2008 / 3:08 PM < 0.0005 0.0005 0.08 Beryllium mg/L 2/29/2008 / 3:08 PM 0.002 mg/L Cadmium 1 0.026 2/29/2008 / 3:08 PM 5 Chromium 0.002 0.441 mg/L 2/29/2008 / 3:08 PM 0.005 5 0.059 Lead 2/29/2008 / 3:08 PM mg/L 0.003 70 Nickel 0.482 mg/L 2/29/2008 / 3:08 PM Selenium 0.024 1 < 0.024 mg/L 2/29/2008 / 3:08 PM Silver 0.002 5 0.031 mg/L 2/29/2008 / 3:08 PM **TCLP Mercury** Analyst: TFR MDL Date / Time Method: SW-846 7470A RL Units Result 0.0020 0.2 < 0.0020 mg/L 2/29/2008 / 2:22 AM Mercury **TCLP Volatiles** Analyst: HDG Method: SW-846 8260B MDL RL Result Units Date / Time 0.10 0.2 < 0.10 mg/L 2/28/2008 / 6:13 PM Vinyl chloride 0.05 0.7 < 0.05 1,1-Dichloroothene mg/l 2/28/2008 / 6:13 PM 200 < 0.50 2-Butanone 0.50 mg/L 2/28/2008 / 6:13 PM 0.05 < 0.05 mg/L Chloroform 6 2/28/2008 / 6:13 PM 0.05 0.5 < 0.05 2/28/2008 / 6:13 PM Carbon tetrachloride mg/L < 0.05 1,2-Dichloroethane 0.05 0.5 mg/L 2/28/2008 / 6:13 PM < 0.05Benzene 0.05 0.5 mg/L 2/28/2008 / 6:13 PM Trichloroethene 0.05 0.5 < 0.05ma/L 2/28/2008 / 6:13 PM 0.05 < 0.05 mg/L 0.7 2/28/2008 / 6.13 PM Tetrachloroethene 0.05 100 < 0.05 2/28/2008 / 6:13 PM mg/L Chlorobenzene 0.05 < 0.05 2/28/2008 / 6:13 PM 7.5 mg/L

Report Date: 29-Feb-08

1.4-Dichlorobenzene

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8020556

Client Sample ID:

Frac, Tank #2

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:13 PM
Reactivity, Recoverable Hydrog Method: 7.3.3.2	gen Cyanide MDL		Result	Units	Analyst CL Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/27/2008 / 2:00 PM
Reactivity, Recoverable Hydrog Method: 7.3.4.2	gen Sulfide MDL		Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/27/2008 / 9:45 AM
Corrosivity: pH Method: SW-846 9045	MDL		Result	Units	Analyst: JE Date / Time
pΗ			8.83		2/25/2008 / 3:45 PM
Ignitability Method: SW-846 1010	MDL		Result	Units	Analyst: DEB Date / Time
Flashpoint			>150	deg F	2/27/2008 / 10:20 AM
TOC (Combustion) Method: SM 5310B	MDL		Result	Units	Analyst: HDG Date / Time
Total Organic Carbon	1		4230	mg/L	2/29/2008 / 2:15 AM

Flags: H; Exceeds "High Limit"	L: Below "Low Limit"	RL=regulatory limit
\mathcal{M}):		
/	110	Friday, February 29, 2008
Holland D. Gilmore, Laboratory	Director	Date

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840

Baytown, TX 77521

Phone: (281) 303-4216 Fax: (281) 303-4299

ouytom, in mod

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

MES Lab#:

8020557

255 756

Client Sample ID:

Frac, Tank #3

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Test Group / Method					
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Antimony	0.032	1	< 0.032	mg/L	2/29/2008 / 3:21 PM
Arsenic	0.014	5	< 0.014	mg/L	2/29/2008 / 3:21 PM
Barium	0.0005	100	0.277	mg/L	2/29/2008 / 3:21 PM
Beryllium	0.0005	0.08	< 0.0005	mg/L	2/29/2008 / 3:21 PM
Cadmium	0.002	1	0.033	mg/L	2/29/2008 / 3:21 PM
Chromium	0.002	5	0.478	mg/L	2/29/2008 / 3:21 PM
l ead	0.005	5	0.058	mg/L	2/29/2008 / 3:21 PM
Nickel	0.003	70	0.507	mg/L	2/29/2008 / 3:21 PM
Selenium	0.024	1	< 0.024	mg/L	2/29/2008 / 3:21 PM
Silver	0.002	5	0.036	mg/L	2/29/2008 / 3:21 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst TFR Date / Time
Mercury	0.0020	0.2	< 0.0020	mg/L	2/29/2008 / 2:25 AM
TCLP Volatiles Metnod: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	2/28/2008 / 6:49 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/l	2/28/2008 / 6:49 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2008 / 6:49 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2008 / 6:49 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:49 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:49 PM
Benzene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:49 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:49 PM
Tetrachioroethene	0.05	0.7	< 0.05	mg/L	2/28/2008 / 6:49 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2008 / 6:49 PM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	2/28/2008 / 6:49 PM

Report Date: 29-Feb-08

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8020557

Client Sample ID:

Frac. Tank #3

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 6:49 PM
Reactivity, Recoverable Hydrog			5 4		Analyst: CL
Method: 7.3.3.2	MDL		Result	Units	Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/27/2008 / 2:00 PM
Reactivity, Recoverable Hydrog	gen Sulfide				Analyst: CL
Method: 7.3.4.2	MDL		Result	Units	Date / Time
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/27/2008 / 9:45 AM
Corrosivity: pH					Analyst: JE
Method: SW-846 9045	MDL	_	Result	Units	Date / Time
рН			8.87		2/25/2008 / 3:45 PM
Ignitability					Analyst: DEB
Method: SW-846 1010	MDL		Result	Units	Date / Time
Flashpoint			>150	deg F	2/27/2008 / 11:00 AM
TOC (Combustion)	i				Analyst: HDG
Method: SM 5310B	MDL		Result	Units	Date / Time
Total Organic Carbon	1		3460	mg/L	2/29/2008 / 2:15 AM

Flags:	H: Exceeds "High Limit"	L:	Below "Low Limit"	RL=regulatory limit
	4	••••		

Holland D. Gilmore, Laboratory Director

Friday, February 29, 2008

Date

Report Date: 29-Feb-08

Page 2 of 2

Mercury Environmental Services, Inc.

6913 11WY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840 Baytown, TX 77521 Phone: (281) 303-4216 Fax: (281) 303-4299

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

MES Lab#:

8020558

Client Sample ID:

Frac. Tank #4

255 343

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Test Group / Method					
TCLP Metals (11) Method: SW-846 6010B	MDL	RL _	Result	Units	Analyst: HDG Date / Time
Antimony	0.032	1	0.085	mg/L	2/29/2008 /
Arsenic	0.014	5	< 0.014	mg/L	2/29/2008 / 3:28 PM
Barium	0,0005	100	0.628	mg/L	2/29/2006 / 3:28 PM
Beryllium	0.0005	0.08	< 0.0005	mg/L	2/29/2008 / 3:28 PM
Cadmium	0.002	1	0.158	mg/L	2/29/2008 / 3:28 PM
Chromium	0.002	5	2.26	mg/L	2/29/2008 / 3:28 PM
Lead	0.005	5	0.301	mg/L	2/29/2008 / 3:28 PM
Nickel	0.003	70	2.17	mg/L	2/29/2008 / 3:28 PM
Selenium	0.024	1	< 0.024	mg/L	2/29/2008 / 3:28 PM
Silver	0.002	į. 5	0.281	mg/L	2/29/2008 / 3:28 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: TFR Date / Time
Mercury	0.0040	0.2	< 0.0040	mg/L	2/29/2008 / 2:27 AM
TCLP Volatiles Method: SW-846 8260B	MDL	RL	Resul <u>t</u>	Units	Analyst: HDG Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	2/28/2008 / 7:24 PM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L===	2/28/2008 / 7:24 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2008 / 7:24 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2008 / 7:24 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2008 / 7:24 PM
1,2-Dichloroethaпe	0.05	0.5	< 0,05	mg/L	2/28/2008 / 7:24 PM
Benzene	0.05	0,5	< 0.05	mg/L	2/28/2008 / 7:24 PM
Trichloroethene	0.05	0.5	< 0.05	mg/L=======	2/28/2008 / 7:24 PM
l'etrachioroethene	0.05	-0.7	< 0.05		-2/28/2008 /7:24 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2008 / 7:24 PM
=1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	2/28/2008 /_ 7:24 PM

Report Date: 29-Feb-08

Page 1 of

- CERTIFICATE OF RESULTS -

MES Lab#:

8020558

Client Sample ID:

Frac, Tank #4

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	2/28/2008 / 7:24 PM
Reactivity, Recoverable Hydrog	en Cvanide				Analyst CL
Method: /.3.3.2	MDL		Result	_ Units	Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/27/2008 / 2:00 PM
Reactivity, Recoverable Hydrog	en Sulfide				Analyst: CL
Method: 7.3.4.2	MDL		Result	Units	Date / Time
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/27/2008 / 9:45 AM
Corrosivity: pH					Analyst: JE
Method: SW-846 9045	MDL		Result	Units	Date / Time
На			9.12		2/25/2008 / 3:45 PM
Ignitability					Analyst: DEB
Method: SW-846 1010	MDL		Result	Units	Date / Time
Flashpoint			>150	deg F	2/27/2008 / 11:30 AM
TOC (Combustion)			4, 4, 3, 3	W.	Analyst: HDG
Method: SM 5310B	MDL		Result	Units	Date / Time
Total Organic Carbon	1		12500	mg/L	2/29/2006 / 2:15 AM

2.00								A STATE OF THE STA	
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Holland D. Gilmore, Laboratory Director

Friday, February 29, 2008

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Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77530 Phone: (281)-476-4534 Fax: (281)-476-4406

Calpine - Baytown Energy Center

P.O. Box 840

Baytown, TX 77521

Phone: (281) 303-4216

ax: (281) 303-4299

Attn:

Rick Damon

- CERTIFICATE OF RESULTS -

MES Lab#:

8020559

Client Sample ID:

Frac, Tank #6

259530

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

Sample Type:

Grab

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

Test Group / Method					
TCLP Metals (11) Method: SW-646 6010B	MDL	RL_	Result	Un <u>its</u>	Analyst: HDG Date / Time
Antimony	0.032	1	< 0.032	mg/L	2/29/2008 / 3:35 PM
Arsenic	0.014	5	< 0.014	mg/L	2/29/2008 / 3:35 PM
Radum	0.0005	100	1.03	mg/L	2/29/2008 / 3:35 PM
Beryllium	0.0005	0.08	< 0.0005	mg/L	2/29/2008 / 3:35 PM
Cadmium	0.002	1	0.147	mg/L	2/29/2008 / 3:35 PM
Chromium	0.002	5	2.28	mg/L	2/29/2008 / 3:35 PM
Lead	0.005	5	0.318	mg/L	2/29/2008 / 3:35 PM
Nickel	0.003	70	2.16	mg/L	2/29/2008 / 3:35 PM
Selenium	0,024	1	< 0.024	mg/L	2/29/2008 / 3:35 PM
Silver	0.002	5	0.278	mg/L	2/29/2008 / 3:35 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: TFR Date / Time
Mercury	0.0040	0.2	< 0.0040	mą/L	2/29/2008 / 2:29 AM
TCLP Volatiles Method. SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.10	0.2	< 0.10	mg/L	2/28/2008 / 6:00 PM
1,1-Dichloroethene	0.05	0.7	< 0.06	mg/L	2/28/2008 / 8:00 PM
2-Butanone	0.50	200	< 0.50	mg/L	2/28/2008 / 8:00 PM
Chloroform	0.05	6	< 0.05	mg/L	2/28/2008 / 8:00 PM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:00 PM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	2/28/2008 / 8:00 PM
Benzene	- 0.05	- 0.5	< 0.05	mg/L	2/28/2008 / 8:00 PM
Trichloroethene	0.05	0.5	≤ 0.05	mg/L	2/28/2008 / 8:00 PM
Tetrachloroethene Line	0.05	0.7	_< 0.D5	_mg/L	2/28/2008 / 8:00 PM
Chlorobenzene	0.05	100	< 0.05	mg/L	2/28/2008 / 8:00 PM
1,4-Dichlorobenzene	0.05	7.5	₹ 0.05	mg/L	2/26/2008 / 6:00 PM

Report Date: 29-F6b-08

Page 1 of 2

- CERTIFICATE OF RESULTS -

MES Lab#:

8020559

Client Sample ID:

Frac. Tank #5

Sample Collect Date: 2/25/2008 @ 7:30:00 AM

0.05

0.25

Sample Type:

Grab

i lexachlorobutadione

Hydrogen Cyanide

Sample Receipt Date: 2/25/2008 @ 11:04:00 AM

2/28/2008 / 8:00 PM < 0.05 mg/L

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2 MDL

Result

0.5

Analyst: CL Units Date / Time

2/27/2008 / 2:00 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2

Result 0.25 < 0.25

Units mg/kg

mg/kg

Date / Time

2/27/2008 / 9:45 AM

Corrosivity: pH

Hydrogen Sulfide

Method: SW-846 9045 MDL

Units Result 9.09

< 0.25

Analyst: JE Date / Time

Analyst: CL

2/25/2008 / 3:45 PM

рΗ

Ignitability Method: \$W-846 1010

TOC (Combustion)

Method: SM 5310B

Total Organic Carbon

MDL

Units

Analyst: DEB Date / Time

2/27/2008 / 11:40 AM

Flashpoint

MDL

lastigates. I

1

>150

Result

Result

13600

deg F

Units

mg/L

Analyst: HDG

Date / Time 2/29/2008 / 2:15 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Friday, February 29, 2008

Date

Report Date: 29-Feb-08

CONTRACTOR CONTRACTOR

Page 2 of

9066916TRZ

Chemcentric 2635 2635

EPAHO108002066





Date 2/29/2008

Dear Dan Curnock

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2635

Expiration Date 3/7/2010

Producer: Chemcentric @ NAPCO Chemical Company

Address: 2830 Spring Cypress Rd

Spring, TX 77388

Material / Product Information

Name of Material / Product Unused 93% sulfuric acid in 275 gallon tote

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused product stored in tote uncontaminated

Color:

Odor:

pH: <1

Physical State:

Incompatibilities: bases

Safety Related Data/Special Handling:

Corrosive product - Appropriate PPE for very corrosive materials

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. FEB-15-2008 09:53

CES Environmental Service

713 676 1676 P.O2



DR

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

City, State, Zip: Contact: Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SECTION 2: Billing I. Company: Chaddress: City, State, Zip: Phone No: SECTION 3: General Name of Material / Pro	2830 Spring Cypress Rd Spring, TX 77388 Andre Ross (281) 253-26 281-924-6218 Na Na Information — Same as American Semicentric Greenway Plaza, Suite 110 Duston, TX 77046 an Curnock 1-9246218 Description of the Materia Educt: Unused 93% Sulfurion Forcess Generating or Pr	Above Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	<u>on tote</u> rial / Product:	NA 1-8726		aminated
Contact: A Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SECTION 2: Billing I. Company: Ch Address: 12 City, State, Zip: Ho Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	Andre Ross (281) 253-26 281-924-6218 Na Na Information — Same as Americantric Greenway Plaza, Suite 110 Duston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurion f Process Generating or Pr	Above Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	GM SUCCODE: GM SUCCODE Total / Product:	NA 1-8726		aminated
Phone No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SECTION 2: Billing I. Company: Address: City, State, Zip: Phone No: 28 SECTION 3: General Name of Material / Productailed Description of	281-924-6218 Na Na Na nformation — Same as Anemoentric Greenway Plaza, Suite 110 ouston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurior Forcess Generating or Pr	Above Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	GM SUCCODE: GM SUCCODE Total / Product:	NA 1-8726		aminated
U.S. EPA I.D. No: State I.D. SECTION 2: Bitling I. Company: Ch Address: 12 City, State, Zip: Ho Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	Na Na Information — Same as Anemomentric Greenway Plaza, Suite 110 Jouston, TX 77046 In Curnock 1-9246218 Description of the Materia Description of the Materia Description of the Materia The Process Generating or Process Generating or Process Security (National Control of the Material Control of the Control of the Material Control of the Material Control of the	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	GM 866-25 on tote rial/Product:			aminated
State I.D. SECTION 2: Billing I. Company: Ch Address: 12 City, State, Zip: HC Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	nformation — Same as Anemoentric Greenway Plaza, Suite 110 ouston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurior Process Generating or Pr	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	GM 866-25 on tote rial/Product:			aminated
SECTION 2: Billing I. Company: Ch. Address: 12 City, State, Zip: H. Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	nformation — Same as Anemoentric Greenway Plaza, Suite 110 ouston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurior Forcess Generating or Pr	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	GM 866-25 on tote rial/Product:			aminated
Company: Ch Address: 12 City, State, Zip: Ho Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	nemcentric Greenway Plaza, Suite 110 puston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurio F Process Generating or Pr	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	n tote rial / Product:			aminated
Address: 12 City, State, Zip: Ho Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	Greenway Plaza, Suite 110 puston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurio F Process Generating or Pr	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	n tote rial / Product:			aminated
City, State, Zip: Ho Contact: Da Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	Duston, TX 77046 an Curnock 1-9246218 Description of the Materia oduct: Unused 93% Sulfurio f Process Generating or Pr	Title: Fax No: al / Product c Acid in 275 gallo roducing the Mate	n tote rial / Product:			aminated
Contact: Day Phone No: 28 SECTION 3: General Name of Material / Pro Detailed Description of	an Curnock 1-9246218 Description of the Materia oduct: <u>Unused 93% Sulfuria</u> f Process Generating or Pr	Fax No: al / Product c Acid in 275 gallo roducing the Mate	n tote rial / Product:			aminated
Phone No: 28 SECTION 3: General Name of Material / Product of Detailed Description of	1-9246218 Description of the Materia oduct: <u>Unused 93% Sulfuria</u> f Process Generating or Pr	Fax No: al / Product c Acid in 275 gallo roducing the Mate	n tote rial / Product:			aminated
SECTION 3: General Name of Material / Pro Detailed Description of	Description of the Materia oduct: <u>Unused 93% Sulfuria</u> F Process Generating or Pr	al / Product c Acid in 275 gallo oducing the Mate	<u>on tote</u> rial / Product:			aminated
Name of Material / Pro Detailed Description of	oduct: <u>Unused 93% Sulfurio</u> F Process Generating or Pr	c Acid in 275 gallo roducing the Mate	rial / Product:	Unused produ	uct stored in tote unconte	aminated
Name of Material / Pro Detailed Description of	oduct: <u>Unused 93% Sulfurio</u> F Process Generating or Pr	c Acid in 275 gallo roducing the Mate	rial / Product:	Unused produ	uct stored in tote unconte	aminated
Detailed Description of	Process Generating or Pr	oducing the Mate	rial / Product:	Unused produ	act stored in tote unconte	<u>aminated</u>
•	_	_		Unused produ	uct stored in tote unconte	<u>aminated</u>
Physical State:	▼ Liand □ Sh	d.a.c.	–			
Physical State:	Z Lianta	udas F	¬ »		₩.	
Physical State:	X Lianid Sh	and an			46	
l		udge [Powder			
	🔲 Solid 🔲 Fil	lter Cake [Combination	m	#	
Color: Clear to Brown	Odor: <u>Ac</u>	rid -				
Specific Gravity (water	r=1): <u>1.8-1.9</u> Densi	lty: 15 lbs/gal				
				•		
oes this material cont	ain any total phenolic com	pounds? 🔲 Yes	⊠ No		West of the	
and the second s			The second secon			
loes this material cont	ain any para substituted p	henolic compound	ds? L Yes L	⊠ No		
Layers:	Single-phase	Multi-phase		e jaron da. Halikan jaron da.	2000 Care	
	10 years		and the second s	ender to dekaren	And the second s	
Container Type: [🗌 Drum 🛭 T	ote 🗀	Truck		Other (explain)	
Container Size:		75			The state of the s	
Joneshier Size.	<u></u>	<u></u>	. (156)	r¥aka garan		
	T With Allelen R	Sandhler	1 Avantanlar	aina 🗖 🕠	Vaceby	
requency:	Weekly D] Quarterly		Yearly	
Number of Units (cont		ther:				vi is of
roper U.S. DOT Ship		Ifuric Acid 93%			The second secon	· · · · · · · · · · · · · · · · · · ·
Class: 8	UN/NA: 18	30	PG; II	, reduces of spinors of	RQ: MAG	The state of the s
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	e a agrecia de la compansión de la compa					

FEB-15-2008 09:53

CES Environmental Service

713 676 1676

P.03

Flash Point	рH	N/A	N/A	Solids
Na	<1	<u> </u>		<u>Na</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
Namg/I	<u>Na</u> mg/l	<u>Na</u> mg/I	Namg/I	Namg/I

SECTION 4: Physical and Chemical Data

CONTONIENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid 93%	93	%
Water	7	%
		
		1

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Corrosive product - Appropriate PPE for Very Corrosive Materials

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): Bases

SECTION 8: Material Producer's Certification

The information contained herein is based on \boxtimes generator knowled attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or stested are representative of all materials described by this document	knowledge and ability to determine that no deliberate or willful uspected hazards have been disclosed. I certify that the materials t.
Authorized Signature:	3/5/2008 Date: <u>X</u>
Daniel P. Curnock -	Faniel P. Currock
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Robbut Manga	\$600 Turn key
Date: 2-7-08 (Approved) Rejected	
Approval Number: 2635	

FEB-15-2008 09:53

CES Environmental Service

713 676 1676 P.O4



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Base Pricing (including freight):		
Turn Key \$600.00		
Contamination Limits (maximum lin	nié hofono cumahouses ambiet.	
	et for use in CES Plant and Chemical Cleaning	Activities
		,
		salen i i i i i i i i i i i i i i i i i i i
Surcharge Pricing:		
Only if product cannot be used as a pro	oduct	
		A.
		が
Special Testing Requirements:		\$ 100 miles
Density Should be 1.8 or higher PH should be <1		
No Solids		
Treatment and Handling Protocol:	e de la companya del companya de la companya del companya de la co	
Used as neutralizing agent or in tankwa	sh/chemical cleaning	
		Company Company
		Car Marketing Control of the Control
		General Control of the Control of th
Treated Wastewater Discharge Subc		CHECKEN CO.
	Subcategory B Subcategory C	
Subcategory A	Subcategory B Subcategory C	Company of the Compan
	A CONTRACT OF THE CONTRACT OF	
	The state of the s	

FEB-15-2008 09:53 CES Environmental Service

713 676 1676 P.05



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

See Section 4					
				War and the second seco	
Management for Produ	uct Recovered/Recycled	i (if applicable);		·	
Use in CES operations-	OK by Marlon	-	·		
•					
				Social Control of the	
			* .		
				Prijek Africa	
en en en en e <mark>nglige</mark> e gegen op en en en en en en en en en en en en en	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
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A Secretary of the Control of the Co	And the second section references	1 (22) (24) (3 (2) (3 (2) (3) (3) (4) (4) (4) (4) (4) (4	which is a secondary to state out to the contract	And the Company of th	
					de as
	that it is				

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear **Bill Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2636

Expiration Date 3/7/2010

Generator: Duco, Inc.

Address: 16661 Jacinto Port Blvd

Houston, TX 77015

Waste Information

Name of Waste: Rags with oil TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Rags used to wipe off from equipment and hands

Color: Various

Odor: none

pH: 6-9

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



13

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information			
Company:	DUCO Inc. Techniq	o		
Address:	16661 Jacintoport E			
City, State, Zip:	Houston, TX 7701:	5		
Contact:	Bill Martin		Title:	HSE Mgr.
Phone No:	281-249-2842		Fax No:	281-457-6794
24/hr Phone:	CES-713-676-1460		*******	
U.S. EPA I.D. No:	TXD000807966	· · · · · · · · · · · · · · · · · · ·		
State I.D.	33041		SIC Code:	NA
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛭 S	ame as Above		
Contact:		Title:		——————————————————————————————————————
Phone No:		Fax No:		
_				
SECTION 3: General	al Description of the	Waste		
Name of Waste: Rag Detailed Description		ng Waste: Rags used to	wipe off oil from ea	quipment and hands
Dhysian I States	□ Timuid	☐ Sludge	Powder	
Physical State:	Liquid		_	
	⊠ Solid	Filter Cake	Combination	1
Color: <u>various</u>	0	dor: <u>none</u>		
Specific Gravity (wat	ter=1): <u>121.4</u> no	Density: <u>10 lbs/gal</u>	na No	phend
Layers:	Single-phase	☐ Multi-phase		
Container Type:	□ Drum	☐ Tote	☐ Truck	Other (explain)
		Lote	IJ IIUCK	Comer (explain)
Container Size:	<u>55 g</u>			
Frequency:	☐ Weekly	☐ Monthly	Quarterly	☐ Yearly
Number of Units (cor	_	Other:	_	Laurent —
				
Texas State Waste Co	ode No: NA	-Recyclable Material		
Proper U.S. DOT Shi			DOT Regulated Ma	
Class: NA	UN/NA	: NA	PG: NA	RQ: NA
2704		73 .1 0 .4 .	T	
Flash Point		Reactive Sulfides	Reactive Cy	
<u>>150</u> 200		<u>Omg/l</u>	Omg/I	100%
Oil&Grease >1500mg/l	TOC >1500mg/l	Zine Omg/l	Copper	Nickel Omg/l
215UUM(7/I	> ::::::::::::::::::::::::::::::::::::	: : :mo/:	U mg/ 	: UM O /1

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Cloth Rags	90-100	%
Trash and debris	0-10	%
oil	0-2	%
		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:

Approval Number:

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

2636

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

Reactivity:	X	
Corrosivity:	$\frac{\mathbf{X}}{\mathbf{X}}$	
Ignitability:	<u>X</u>	
SECTION 9: Generator's Certification The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition proporties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this documentate. Authorized Signature: Date: 3/7/2008 Printed Name/Title:		
CES USE ONLY (DO NOT W		
Compliance Officer:	Additional Information: 45°0/Dm	
Date: 2 7-08		

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES NO NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX, IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.		
(2)	2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concer of the values listed below, the waste should be classified in the metals subcategory.		
		am: 0.2 mg/L	
		ium: 8.9 mg/L	
		: 4.9 mg/L	
	Nickel:	37.5 mg/L	
` /		raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.	
		Metals Subcategory	
		Oils Subcategory	

SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Andergauge 2637

Q E 8-4.09 LAD T. 35

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Keith Caulfield

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2637

Expiration Date 3/7/2010

Generator: Andergauge Drilling Systems **Address:** 6806 Willowbrook Park Drive

Houston, TX 77066

Waste Information

Name of Waste: Recyclable oily water

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oil, water and grease from cleaning off down hole drilling equipment for retooling

Color: brown to black

Odor: slight hydrocarbon

pH: 4-10

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

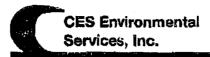
level DS PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

P.002



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener			~					
Company:		ergauge Drilling	Sys	teins				
Address:		Willowbrock						
City, State, Zip:		ston, TX 77066						
Contact:		h Caulfield				Title:	Manager	
Phone No:		422-4025			!	Fax No:	832-422-4	1006
24/hr Phone:		566-0578						
U.S. EPA I.D. No:		BRQG					١. ٨	
State 1.D.	CES	QG			;	SIC Code:	NA	
SECTION 2: Billing	<u>Infor</u>	mation – 🛛 Sa	me z	ıs Above				
Сомрану:								
Address:								
City, State, Zip:								
Contact:				Title:				
Phone No:				Fax No		· · · · · · · · · · · · · · · · · ·		
		i			_			
SECTION 3: Gener	al Des	eription of the	Wasi	<u>te</u>				
Name of Waste: Rey								
	of Pro	ecss Generatio	g W	aste: Oil, Water, a	ind gre	ease from clea	ning off do	wn hole drilling equipment for
retooling.								
	.	_ .			_			
Physical State:	\boxtimes	Liquid	\bowtie	Sludge		Powder		
		Solid		Filter Cake		Combination	n.	
					_			
Color: Brown to Blac	k	Od	lor: :	Slight Hydrocarbo	n			
					-			
Specific Gravity (wa	ter=1):	.9-1.1		Density: 8-8.5 lb	ร/ชลโ			
Does this material co	ntain :	any total pheno	lic e	ompounds? 🔲 Y	es	⊠ No		
				•	•			
Does this material co	ntain :	ny para substi	tute	d phenolie compo	uuds?	Yes D	☑ No	
Layers:		single-phase		Multi-phase	•			
•								
Container Type:		Drum		Tote	\boxtimes	Truck	П	Other (explain)
Container Size:			_		-	<u>1-3000</u>	-	- mass (magnetical)
Container Size.						1-0000		
Frequency:		Weekly	Г	Monthly	☒	Quarterly	[-]	Yearly
•		•		•	الأسيكا	~ mont ove 43	Last	~ ~ ~ ~ * * * * * * * * * * * * * * * *
Number of Units (co	ſ		1	Other:				
Texas State Waste C	ode N	e: Recy	/cle					•
Proper U.S. DOT Sh	ipping	Name:		Recycleable Oily	Water	Mixture		
Class: Na		UN/NA:	. –	Na		PG: Na		RQ: Na
			-	 -				
	1							

MAR-05-2009 1: Flash Point	nt pH Reactive Sulfides				ve Cyanides	719740066 30mas	7197499664 P.003					
>160 200	4-10	N:	amg/l	Name	/1	5-20%	6					
Oil&Grease	TOC		Zinc	Copper		Nickel						
≥3000mg/l	<5 <u>000</u> m	<u>g/1</u>	Namg/l	<u>Namg/l</u>	!	Namg/I						
SECTION 4: Phy	sical and Cite	emical Tlata										
00011044114		ONENUSA	A OTHE			nication	Units					
Th			owing materials			re acceptable	01. %					
Oil					1-5		%					
Water					79-94		%					
Grease Dirt					5-20		%					
		-				_	_					
SECTION 5: Safe	ty Related D	ata										
If the handling of <u>Lovel D PPE</u>	this waste req	juires the us	e of special protectiv	e equipment,	picase expla	in.						
SECTION 6: Atta	ched Suppor	ting Docume	ents									
List all documents TCLP Analysis	, notes, dafa,	and/or anal)	sis attached to this f	form as part o	f the waste :	approval packa	ye.					
EECTION 7: Inco	mpatibilities											
Please list all incom None-OXIA in		if any):										
SECTION 8: Gen	erator's Kno	wiedge Doen	mentation									
		rdous waste	characteristics, liste	d below, WA	S NOT PER	FORMED bas	ed upon the fo	ollowing				
generator knowled	ge:											
TCLP Metals:												
TCLP Volatiles:												
FCLP Semi-Volati Reactivity:	les:	*										
Corrosivity:												
gnitability:												

SECTION 9: Gen				_								
			gonerator knowle									
			e to the best of my lithat all known or su									
			ped by this document	[] []				, indicite				
• -	//	1) (2/1)	11 10 0 11/1	9		. 2/1/	28					
Authorized Signati	ne: X		T LOSSES		Date	:X 2/7/6	70					
Printed Name/Title	× × v	J. K	LIAM C	AML B	<u>CLD</u>	<u>x 3/7/2</u>	t mag	ìR.				
ES USE ONLY (DO P	OCWRITEIN	THIS SPACE)						·				
7-mml/	D. Dr	.011.										
Compliance Officer	french.	-VCJM										
Date: 2 29	08	Approve	d Rojected									
7			-									
	i i	1637	ł									

MAI	R-05-2008	13:13	CES ENVIROMENTAL	7137488664	P.00
S	ECTION 10:	Waste Receip	t Classification Under 40 ClfR 437	1101100001	1.00
Is	this material	a wastewater o	r wastewater sludge? 🛛 YES 🔲 NO		
τ¢	Was inmal	ete this section			
11	res 'comb	cie mis sechon			
p	LEASE CHE	CK THE APP	OPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO	TO THE NEXT PAG	JE.
Met	als Subcutego	ory: Subpart A			
	Spout alact	roplating baths	and/or studges		
Ħ		hing rinse wate			
Ħ	Chromate v				
Ħ			down water and sludges		
		izing solutions			
		n wastewaters			
		id mercury			
			greater than 136 mg/l		
			h or without metals		
H		insing, and sur- leburring waste	ace preparation solutions from electroplating or phosphating op	61 9 (10HZ	
Ħ			s used to clean metal parts or equipment		
	V				
Oils.	<u>Subcategory</u> .	: Subpart B			
_					
Щ	Used oils				
H	Cul-water e	mulsions or mi	xtures		
	Coolants				
H	-	ted groundwate	r clean-up from petroleum sources		
Ħ		eum products	. The same of the post of the same of the		
	Oil spill cle				
	Bilge water	•			
\boxtimes			etroleum sources		
H	Interceptor				
H	Off-specific		dissing manager	•	
H		nd storage rem	leum or oily sources		
H		t used glycols	Built of only sources		
Ħ			from parts cleaning operations	•	
			ng paint washes		
<u>Orga</u>	nics <u>Subcate</u>	g <u>ory</u> : Subpart	C		
	Landfill lea	ahoto			
H		ľ	r clean-up from non-petroleum sources		
H	Solvent-bea		cecan-up nom non-penotoum sources		
Ħ		ation organic	roduct		
	Still bottom				
		waste glycol	•		
	Wastewater	from paint wa			
Ц			s and/or epoxies formulation	•	
닠			hemical product operations		
L.	i aik clean-	our nom organ	ic, non-petroleum sources		
	•				

MAR-05-2009 13:13 CES ENVIROMENTAL 7137488664 P.005 (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory. (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory

SECTION 11: Additional Instructions

Oils Subcategory

Organics Subcategory

X

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chronium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	.35/Gal Plus \$105/hr Trans plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	Fail Chlor-d-Tect
3.	Surcharge Pricing:
	>20% Solids Call Rep Dan Bowman
	·
I	
4.	Special Testing Requirements:
τ. Γ	
	Run City Metals Chlor-d-tect on Oil
	* solids trun pt, TOC, and phenolics on water sphase
1,	
5.	Treatment and Handling Protocol:
Г	Treat as Oily Water
- }	Remove Liquids from Top of Trailer
	Offload Solids into Roll-Off
-	
ó.	Treated Wastewater Discharge Subcategory:
ſ	
1	Subcategory A Subcategory B Subcategory C
L	



7.	Tests for Product Rec	overed/Recycled (if applicable):
8.	Management for Pro	duct Recovered/Recycled (if applicable);
!		



ENVIRON EXPRESS LABORATORIES, INC.

493 N. 1103. BL Empore, TX 77571 281.471.0051 PAKEMIATILANS

CERTIFICATE OF ANALYS	SIS NO:	62937.02	- MCG-4-1-				70f 3		-	
Gustomer: CES Env. Project ID: Antigration Charge/P.O.:	Main	D: 0208-19 (B) at Wasto Wa te at Grap	r F	Bampked bevleset	: 62837.02 : 02-07-08 16:00 - 62-18-08 : 62-28-08					
ANALYTE/						Thirtie		T	in .	
PARAMETER	RESULT	UNITS	reg. Limit	MOL	Test <u>M</u> ethod	JEST AB	DATE	TIME	1	
трн	*		1	 	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	 	† -	1	1	
nG0 to NU12 GRO	696	mg/kg	1 -	500	TC≝Q 1006.3	DB	80-22-50	12:54		
> nC12 to nG2R DPO	10,107	nig/lig	_	500	TCED 1005.3	03	02-22-0B	72:54		
> JIC2B to nC3S QIRO	16,179	mg/kg	-	500	TUEO 1005.3	OB	02/22-08	12:54	1	
TPH (Total nC8 to nC95)	31,976	wd/kd	500		TCEQ 1005.0	BCI	02-22-08	12:54	ĺ	
RCI Reactive Cvanide	c 50	ng/kg	250	50	504 AMM 40 70	OLC	02-14-08	1	· ·	
Reactive Suitate	< 50	mg/kg	500	60	EPA SW846.7.3 EPA SW846.7.3	OFC	02-14-05	11:50	ĺ	
Corrasivity (pH)	7.08	Su	=>2; =<12,6		EPA SW848.50450	OLG	02-14-08	11:30	į	
lgnkability	> 160	°F	> 140	i - i	EPA SWOME.1010A	OLC	02-14-08	13:50	į.	
METALS - TOLP	1	j	}]	EPA SW846.1311	MN	02-07-08	1	I	
Antintony	0.1	nug/I	1.0	1.0	EPA SW848.6010C	JA	02-14-08	19:00	•	
Arsenic	< 0.1	mg/l	1,8	0.1	EPA SW846.6010C	JA	02-14-09	1500		
Bedum	< 2,0	Num	100	0.5	EPA SW846.6010C	JA	07-14-08	16,00	f	
Beryikum Cadmium	< 0.05	mg/l	0.08	0.05	EPA SW845.60100	JA.	02-14-08	18:00	i	
Cadmium	< 0.1	mg/l	9.5 5.0	0.1	EPA SW846.6010C	JA JA	02-14-08	16:00		
roug	2 D.1	mg/l ng/l	1,8	0.1	EPA SW848.5010C	JA	02-14-0B	15:00	l	
Nickel	0.1	mg/l	70	0.1	EPA SWa46.0010G	JA	02-14-08	10:00		
Bolonium	< 0.1	mg/l	1.0	0.1	EPA 5W046.6010C	JA.	92-14-08	18:00	§	
Skvar	< 0.2	mg/l	6,0	0.8	EPA SWB46.6010C	JA	02-14-0B	18:00		
Mercury	< 0.02	mg/i	0.2	0.02	EPA SW846,7470A	MN	80-81-90	09:00		
/OC - TOLP (Dijulian Factor, 20	1.0)	1			11C1.3raW8	MN	02-07-0B			
Beneono	< 0.08	mg/l	0.5	0.00	80056.848WZ	JAC	02-14-08	25:14		•
-Bulanono (MEK)	< 0.20	n iQV	200.0	0.20	SW848.\$250B	JAC	02-14-06	29:14		
Ramon teltachloride Prioroponzene	< 0.08 < 0.08	mg/l	100	0.08	SW846,62608 SW846,6261/3	JAC	02-14-08	29:14	1	
hioroform (Trichioromethano)	< 17.08	mg/	6.0	0.06	SW846.8280B	JAC	02-14-08	23:14	İ	
,2-Oichioroathane (EDC)	< 0.08	mg/l	0.5	0,08	3WR46,9200B	JAC	02-14-0B	29:14		
1-Dichloroethane	< 0.08	mgA	0.7	0.08	6W849,8250B	JAC	02-14-08	28:14		
anertiporoid:ano	2 0.00	mg/l	9.7	80,0	6WA16,82808	JAO	02-14-08	28:14		5 1
dehloroathana	< 0.08	mg/l	0.5	9.08	6W84G.02G0B	JAC	02-14-09	29:14		
'nyi chiarido IVOC - TCLF(Cana. Facior: 50.0)	< 0.08	mg/l	0.2	0.08	5W8413.02608 SW846,1311	JAC	02-14-08 02-07-08	23(14		第 樓
4-Dichlorobenzene	0.10	Jug/L	7.5	0.10	SW846.8270C	JAC	02-07-08 02-18-08	18:00		
A-Dinitrololuano	< 0.10	ng/l	0.13	0.10	SW846.6270C	JAG	02-19-08	10:00		
exactionobchzene	< 0.10	mg/l	0.13	0.10	SW846,0270C	JAC	02-19-08	18;00		
enelbatudoralitaene	< 0.10	mg/l	0.50	0.18	SW946.8270C	JAC	Q2-19-CB	18:00		
oxactilomethanio Methylphenet (o-Cresel)	< 0.10	Mg/l	D.E.	0.10	5W846,8270C	JAC	02-18-08	18:00		THE THE
%4-Wethylphenol (map-Cresol)	< 0,10 0.35	w®y W®y	. (20G) (0+m+p)	0,10	6W846,8270C EW846,8270C	JAC JAC	02-19-06 02-19-06	18:00		
Robonzane	< 0.10	mg/l	2.0	0.10	SW846.62700	JAG	02-19-08	12:00		400
laneracocidacine	< 0.50	mg/l	100	0.50	SW846,62700	JAC	02-18-08	18:00		35.5
yridine	₹ 0.49	mg/1	····· 50	0.40	SW848.8270C	-JAG-	- 02-19-00	10:00		
4.5-Trichlorophenoi	< 0.10	mg/l	^{?4} 400	0.10	5V/245,82700	JAC	92-19-08	18:00	•	200
4,6-Trishlorophenol	< 0.10	mg/l	2.0	0.10	EW848,8270C	JAC	02-10-08	16:00	: .	- 125 Septembrie 127 Septembrie
URROGATE QUA		IOL — TOLP V ESULTS (mo/		GATER	ECOVERIES					3
2-Dichloroethame-d4 (SS)		0.050			100		76-11			
dueno-de (86)		0.046			92 ~ 3	-	80-12		man and the same of the same o	
Bromoliuorobenzene (6S)		0,061			102	4	60-12			
		OL - TCLP SV		GATE	RECOVERIES					1
JRROGATE	.[1]	ESULTS (mg/l			% RECOVERY		PANGE			
habanzeno-nti Fisorobiphenyi		0.015	ŀ		30	•	25.11			
ephanyl-d14		0.028 0.041	- 1		7 1		43-110 33-14			T. Av. T.
enct-d5		0.070			70		21-100			Grown
Fluorophenol	**-	0.060		/·	60		10-10			
Construction T-3,1		0.085	<u>∵</u>		115		10-12	3	A Company of the control of	
				491). /	L and		A CONTRACTOR OF SECURITY	
May: TC II - Toxoly Characimil Sc !			4-7-17-1-1-1			<i></i>	Z-C-LESS C-	<u>مۇرىنى</u>	and the state of t	THE PERSON NAMED IN COLUMN
Professional Profe			TOWN THAT I'V							and the state of the
RCVO-As list should (Vel) Bas	de .	OddRnuge				1-b- 14	altor Bt 5			
RCVO - As It actives (Well Test	ate •	Oddine 	man selection pe				on Dissolar		and the state of t	
RCVO-As list should (Vel) Bas	ate •	Oddine 					oller, Ph.D ory.Director			
RCVO - As It actives (Well Test	ate •	Oddine 	man selection per							
RCVO - As It actives (Well Test	ate •	Od of France	man selection per							



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. Lu Porte, TX 77571 281.471.0951 FAX:281.471.5921

CERTIFICATE OF ANALYSIS NO:

62937.01

1 of 3

Customer: CES Env.

Sample ID: 0208-20 (A)

Environ ID: 62937.01

Project ID: AnderXXXXXX

Advadou (lecola

Sampled: 02-07-08 16:00

Project Loc: Charge/P.O.: Matrix: Liquid Type: Grab Received: 02-13-08 Reported: 02-22-08

Grab Reported: 02-22-0

ANALYTE/ PARAMETER		ESULT	UNITS	REG.	MQL	TEST METHOD	TEST BY	DATE	TIME
METALS-TOTAL						EPA SW846.1311	MN	02-13-08	
Antimony		0.2	mg/l	1.0	0.1	EPA SW846.6010C	JA	02-14-08	16:00
Arsenic	- } }	0.1	mg/i	1.8	Q,1	EPA SW946.6010C	JA	02-14-08	16:00
Barlum		33.2	mg/l	100	2.0	EPA SW846,6010C	JA	02-14-08	16:00
Berylllum	<	0.05	mg/l	0.08	0.05	EPA SW846.6010C	AL	02-14-08	16:00
Cadmium	<	0.1	mg/l	0.5	0.1	EPA SW846.6010C	JA	02-14-08	16:00
Chromium		0.5	mg/i	5.0	0,1	EPA SW846.6010C	AL	02-14-08	16:00
Lead		0.7	mg/l	1.5	0,1	EPA SW846.6010C	J۸	02-14-08	16:00
Nickel	' 1	0.2	mg/l	70	0.1	EPA SW846.6010C	JA	02-14-08	16:00
Səlenlum	<	0.1	mg/l	1.0	0.1	EPA SW846.6010C	JA	02-14-08	16:00
Silver	<	0.2	mg/l	5.0	0.2	EPA SW846.6010C	JA	02-14-08	16:00
Mercury	<	0.02	mg/i	0.2	0.02	EPA SW846.7470A	MN	02-19-08	09:00

Kay: YCLP - Toxicity Characteristic Luzahing Procedu REG - Regulatory Limit (User Should Verily)

EPA - Environmental Protection Agency

MOL - Method Quantietion Limit

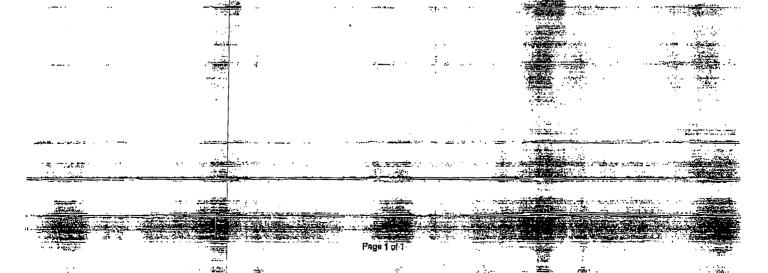
TOEQ - Tures Commission on Stringmental Or RCVD - As Fischived (Wol) Bacia

mg/i - Millgrams per Liter (PPM Volume)

mg/kg - Milligrams por Klipgram (PPM Weight)

John Keller

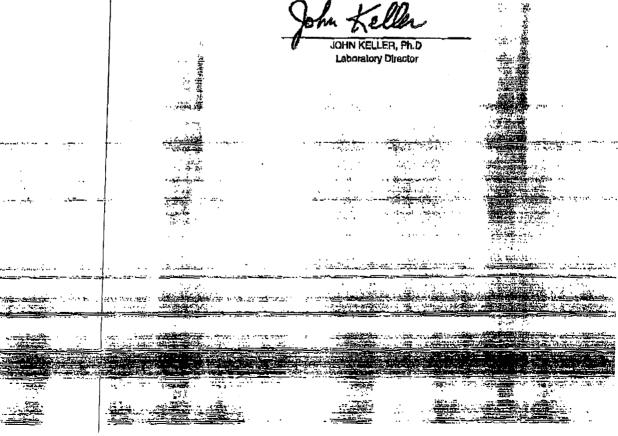
John Keller, Ph.D Laboratory Director



2-29-	08, \$151PM.	ENVITOR				I	1131466664	P.010
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		ENV	IRON EXPRESS	QUALITY CONT	BOI BEROE	~		
		1 5140	INDIA EXPLICACIO	CONT.	TOL NEPOI	\		
		1						
ANALYSIS:	TPH	METHOD:	TNACC 1005.3					
ANALYST:	dmb	MATRIX:	SOIL	JUNITS:	mg/kg	SAMPLES:	15	
						•		
ATTEN 20	1 00040 04	00040.00	7 2000	1 20010 01	7 2244 2		T 44005 00 1	1
SAMPLES:	62913-01	62913-02	62913-03	62913-04	62914-01	62914-02	62922-01	
	62922-02 62937.02	62922-03	62922-04	62922-05	62906-02	62931-01	62932-01	
	V/2307.U/.		<u></u>		جحجا	L		j
C SAMPLE	MB	CCV	LCS	MS	MSD	MS-MSD	QCL	MITS
2922-04	mg/kg	REC	REC	REC	REC	CICHE	REC	RPD
RO RESULT		90%	86%	93%	95%	2%	75-125	20
RO RESULT	< 50	93%	97%	88%	96%	8%	75-126	20
								
OHN KELLE	Ph.D, Lab Dir.		2/21/0 DATE					
EY:		oleum Hydrocarbo	ns .	LCS - Laboratory		;		<u>:</u> •-
	GRO - Gasoline			MS - Matrix Spike				•
	ORO - Dissel Re	g Celibration Verille g Celibration Verille		MSD - Matrix Spil RPD - Relative %				
	MB - Method Bla	- 1	SHIDU	AEC - Recovery				<i>‡.</i>
	MD - MAUOU DIS	yir.		TIEG - Nezdoory	/ a			
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			ENVIRO	N EXPRE	SS QUALI	TY CONT	ROL REP	ORT	7,
ANALYST: JA DATE: 02.14.08 UNITS; PPM (mg/l) NO.SAMPLES; 17 SAMPLES: 62838.01 62929.03 62929.04 62929.05 62830.01 82930.02 62930.03 62936.07 62937.01 62937.02 62938.01 62938.02 62938.03 62938.04 82938.05 62929.05			<u> </u>	, :: 			····		
ANALYST: JA DATE: 02.14.08 UNITS; PPM (mg/l) NO.SAMPLES; 17 SAMPLES: 62838.01 62929.03 62929.04 62929.05 62830.01 82930.02 62930.03 62936.07 62937.01 62937.02 62938.01 62938.02 62938.03 62938.04 82938.05 62929.05			1						•
ANALYST: JA DATE: 02.14.08 UNITS; PPM (mg/l) NO.SAMPLES; 17 SAMPLES: 62838.01 62929.03 62929.04 62929.05 62830.01 82930.02 62930.03 62936.07 62937.01 62937.02 62938.01 62938.02 62938.03 62938.04 62938.05 62929.05		,							
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SAMPLES: 62838.01 62929.03 62929.04 62929.05 62830.01 82930.02 62930.03 82896.01 62937.01 62937.02 62938.01 62938.02 62938.03 62938.04 82938.05 62929.01				- 101					
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Barium	0.00	5	4.37	87	91	4	98	0	75 - 125	20
Cadmium	0.00	5	4.30	86	90	5	96	0	75 - 125	20
Chromlum	0.00	5.	4.34	87	19 1	5	96	0	75 - 125	20
Lead	0.00	5	4.93	87	91	5	95	0	76 - 125	20
Balenium	0.00	5	4.46	89	94	5	94	_ 0	75 - 125	20
Silvar	0.00	5	4.28	86	90	5	99	0	75 - 125	20



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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/22/2008

Dear Bret Laughter

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2622

Expiration Date 2/22/2010

Generator: Tesco-Bellville **Address:** 1035 Hacienda

Bellville, TX 77418

Waste Information

Name of Waste: Recyclable oil / water mixture

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Equipment fluid changes

Color: black

Odor: oil

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. DR OK

CES Environmental Services, Inc.

GB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General	rator Information					
Company:	Tesco Industries,	Inc.				
Address:	1035 E. Haciend	a				
City, State, Zip:	Bellville, TX 77	418				
Contact:	Brett Lauder		Title:	Maint. Superv	/isor	
Phone No:	979-865-3176	1/04	Fax No:	979-865-9026		
24/hr Phone:	CES-713-676-14	60				
U.S. EPA I.D. No: 7						
State I.D.	CESQG		SIC Code:	NA		
State 1.2.	02040		510 0000.	7.63		
SECTION 2: Billing	Tinformation	Same as Above				
Company:	g information – 🔼	Same as Above				
Address:		The state of the s				
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City, State, Zip:		T:41	·····		·	
Contact:		Title:	-			
Phone No:	·	Fax No:				
SECTION 3: Gener	al Description of t	he Waste				
Name of Waste: Rec	cyclable Oil/Water I	<u>Mixture</u>				
Detailed Description	of Process Genera	ting Waste: Equipment flu	iid changes			
Physical State:	Liquid	Sludge	Powder			
	☐ Solid	Filter Cake	Combinatio	n		
	-					
Color: Black		Odor: oil	10 or # 1 0	too al con	tain any tota	L nhenolic
Color. Bluck		υ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ Δυ	nes my ma	alexand was	aban benj ww	plante
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Specific Gravity (wa	ter=1): <u>.80-1.0</u>	Density: 8 lbs/gal			24.	•
_		57	Does this	material a	contain any p	ana
Layers:	Single-phase	Multi-phase		1 do 21-16	ted phenolic	Com conda?
				Jew II	edg grenore	•
Container Type:	□ Drum	☐ Tote	Truck	☐ Ot	her (explain)	Nd
Container Size:	<u>55 gal</u>				· -	_
Container 5120.	<u> </u>			-		
Frequency:	☐ Weekly	☐ Monthly	Quarterly	☐ Ye	arly	
Number of Units (co	ntainers): 1	Other:				
Texas State Waste C	. –	A-Recyclable Material			•	
						
Proper U.S. DOT Sh	ipping Name:	Non-RCRA; Non-D	OOT Regulated M	aterial		
Class: NA	UN/N	NA: NA	PG: NA	4	RQ: NA	

Flash Point	pН	Reactive Sulfides	Reactive C	vanides	Solids	
> 150 200	neutral	Omg/l	<u>0</u> mg/l	•	< <u>2</u> %	
Oil&Grease	TOC	Zinc	Copper	Nickel		
>1500mg/l	>1500mg/l	Omg/I	Omg/I	Omg/l		

SECTION 4: Physical and Chemical Data

682.22	Service.
Ranges are acceptable	or %
40-60	%
40-60	%
	
	
	40-60

SECTION 5: Sufety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. CES Analytical Report

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
	_
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corresivity:	义
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🖸 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition proporties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document. Date: 2-18-08

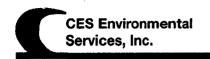
Printed Name line:	
Ces use only (DO NOT WRITE IN THIS SPACE) Compliance Officer: Colon Officer Approved Rejected Approval Number: 2672	

<u>SI</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

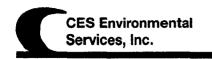
(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.						
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.							
	Chron Coppe	tum: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L						
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.						
		Metals Subcategory						
	\boxtimes	Oils Subcategory						
		Organics Subcategory						

SECTION 11: Additional Instructions

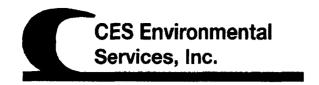
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$40.00 hour
2.	Contamination Limits (maximum limit before surcharges apply):
	none
_	
3.	Surcharge Pricing:
	none
4.	Special Testing Requirements:
	none—
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	run pH, TOG total phenolics on the water phase, chip -D-Tect,
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5.	Treatment and Handling Protocol:
Γ	
	Receive as oily water
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6.	Treated Wastewater Discharge Subcategory:
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	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



•	Tests for Product Recovered/Recycled (if applicable):
	Chlor-D-Tect already completed
- 1	
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i	Management for Product Recovered/Recycled (if applicable);
[Oil-Recycled
	Oil-Recycled
	Oil-Recycled
•	Oil-Recycled



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 02/15/08

To: Gary Brauckman

Cc: Gary Lenertz, Bo Cumberland

From: Miles Root Lab Memo: 08-022

Subject: Tesco Industries Used Oil Evaluation - # 0208-33

A sample of oil and water from Tesco Industries, Bellville, has been evaluated as a source to use in our black oil. This material is used oil from equipment fluid changes. The sample is close to being a 50/50 mix of oil and water. The oil has a chlor-d-tect value less than 500 mg/L and a flash point greater than 140 deg F. The oil blends easily with black oil and will be a good fit. This source will be a few drums of material.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/22/2008

Dear Fred Leach

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2623

Expiration Date 2/22/2010

Generator: AMTEX Machine Products, Inc.

Address: 4517 Brittmoore Road

Houston, TX 77041

Waste Information

Name of Waste: Class 1 solids TCEQ Waste Code #: CESQ3191

Container Type:

Detailed Description of Process Generating Waste:

paint solids and absorbent used to clean up paint

Color: varies

Odor: none

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



SH. PET U

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	Amtex Machine Pr	oducts			
Address:	4517 Brittmoore R	oad			
City, State, Zip:	Houston, TX 7704	1			
Contact:	Fred Leach		Title:		
Phone No:	713-896-4488		Fax No:	713-896-	6363
24/hr Phone:	281-224-8121				
U.S. EPA I.D. No:	TXCESQG				۸.
State I.D.	CESQG		SIC Code:	N:	Υ
SECTION 2: Billing	g Information – 🛛 S	Same as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:		·····	
SECTION 3: Gener	al Description of the	e Waste			
Name of Waste: <u>Cla</u> Detailed Description		ing Waste: paint solids an	d absorbent used	to clean up	paint
Physical State:	☐ Liquid ⊠ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combinatio	n	
Color: <u>varies</u>	C	Odor: none			
Specific Gravity (wa	ter=1):11 na	Density: 2-lbs/gal			
Does this material co	ontain any total pher	nolic compounds? 🔲 Yes	s 🗵 No		
Does this material co	ontain any para subs	tituted phenolic compour	nds? 🗌 Yes 🛭	⊠ No	
Layers:	⊠ Single-phase	Multi-phase			
Container Type:	⊠ Drum	☐ Tote ☐	Truck	П	Other (explain)
Container Size:	<u>55 gal</u>			_	———
Frequency:	☐ Weekly	☐ Monthly □	Quarterly		Yearly
Number of Units (co	ntainers): 1-5	Other:			
Texas State Waste C	,	SQ3191			
Proper U.S. DOT St	<u> </u>	Non RCRA/Non DC	OT Regulated Mar	terial	
Class: NA	UN/N	·	PG: NA		RO: NA

Flash Point	pН	Reactive Sulfides	Reactive Cyanid	es Solids
<u>NA</u>	NA NA	Omg/l	` <u>O</u> mg/l	100%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>O</u> mg/l	NAmg/I	NAmg/I	NAmg/I	NAmg/I

SECTION 4:	Physical a	ind Cher	nical Data

CONTRONDATES TAMER	Concentration	Date
The waste consists of the following materials	Ranges are acceptable	or %
Absorbent	90-95	1%
Paint solids	5-10	(27)
		Annual of the second second second
		Marini - Chinabaya Karamadinga, akayayana di

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics,	listed below,	WAS NOT P	ERFORMED base	d upon the	following
generator knowledge:					

TCLP Metals:	$\underline{\mathbf{x}}$
TCLP Volatiles:	X
TCLP Semi-Volatiles:	\mathbf{X}
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby	y certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine the	iat no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed.	I certify that the materials
tested are representative of all materials described by this document.	

Authorized Signature	: Auf Keach	Date: 32/20/08
Printed Name/Title:	Fred Leach	i Congress of the 2014 of the 1975 of the

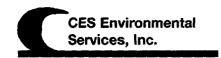
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Porthurthangel	
Date: 2-22-08 (Approved) Rejected	•
Approval Number: 2623	
Adaptive for the second state of the second st	

SI	ECTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	uls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

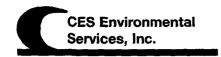
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.		
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.		
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L r: 37.5 mg/L	
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.	
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1.	Base Pricing (including freight):
	\$55.00/drum
2.	Contamination Limits (maximum limit before surcharges apply): NA
3.	Surcharge Pricing:
	NA NA
4	Superial Manatina Descriptions and a
4.	Special Testing Requirements: NA Make a physical determination that this waste is solid absorbant material.
5.	Treatment and Handling Protocol:
	Put in class 1 box
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycled (if applicable):		
	NA	
8.	Management for Product Recovered/Recycled (if applicable);	
	NA	

the contract of the contract o ** MATERIAL SAFETY DATA SHEET * PARAGON COATINGS P.O. BOX 927 eres and tops are they have been tops tops tops tops tops and the best tops and the comment and the second tops are the second tops and the second tops are the second # Emergency # (800)-255-3924 211 MAIN STREET * Information # (713)-946-7837 SOUTH HOUSTON, TX 77587 est Revision Date...10/04/95 No. 15 to 15 SECTION 1 PRODUCT IDENTIFICATION PRODUCT NAME OR KUMBER...... 3262 SEMI GLOSS RED ENAMEL TRADE NAME OR CHEMICAL NAME... INDUSTRIAL ENAMEL FORMULA..... Proprietary HMIS RATING..... Health 2, Flammability 3, Reactivity 0 walanda ka waka ka malama ka malama ka malama ka maka ka ma SECTION 2 HAZARDOUS INGREDIENTS NO THE CONTROL OF THE CHEMICAL NAME(S) CAS NUMBER & WI TLY-IWA TLY-SIEL ALIPHATIC HYDROCARBON 8032-32-4 15.8 300ppm, 1370mg/m 400ppm 3 300ppm No XYLENE . - 1330-20-7 34 100ppm, 434mg/m3 150ppm, 651mg/m3 100ppm Yes Information for mixtures is based on constituent MSOS which are available upon request. [Minus Proprietary Trade Names]. SECTION 3 PHYSICAL DATA NT VOLATILE BY WEIGHT (%).... 49.8 A PRESSURE mm kg @20° C..... Unknown VAPOR DENSITY (Air = 1)..... Heavier than air EVAPORATION RATE (Ether = 1)..... Slower than ether WEIGHT PER GALLON............ 8.56 SOLUBILITY IN WATER..... Insoluble DH.....N/A WATER/OIL DISTRIBUTION COEFFIC.... N/A APPEARANCE...... Paint appearance that the state of FIRE AND EXPLOSION HAZARD DATA SECTION 4. FLASH POINT "F...... 56"F. AUTOIGNITION TEMPERATURE..... Unknown FLANNABILITY LIMITS - LEL:... 1.0 - UEL: ... 8.0 EXTINGUISING MEDIA...... Regular foam. CO 2. dry chemical FIRE AND EXPLOSION HAZARDS... Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations distant from material handling point. Never use walding or cutting torch on or near drums (even empty) because product can ignite explosively. Page 1

3262 S/G RED ENAMEL

SECTION 5	HEALTH HAZARD DATA
INHALATIONExcess include CONTACTDirect N CONTACTProlor	sive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects ding dizziness, weakness, fatigue, nausea, headache and possible unconsciousness and even death, t contact of product with eyes can cause severe irritation, redness, tearing and blurred vision, need or repeated contact of product with skin may cause moderate irritation, defatting or titles.
SKIN ABSORPTIONSome of	of the items listed under Section 2 may be absorbed but, due to low concentrations within the
INGESTIONCan ca	ete formulation, no effects should be noted. Buse gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may result in chemical Onitis which can be fatal.
	tial local and systemic effects due to repeated or long term overexposure to the eyes and skin or The inhalation and ingestion.
	EMERGENCY AND FIRST AID PROCEDURES
in the first of the contract o	rak ing transport ang kanang tang at panggapat dan panggapat na na panggapan na panggapan na panggapat na pang
	idual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped give espiration; keep person warm, quiet and get immediate medical attention.
EYESPlush eyes w	ith large amounts of water, lifting upper and lower tids occasionally. Get medical attention. ash affected areas with soap and water. Remove contaminated clething. Launder contaminated
INGESTION If swallowed fluids or in lungs due to	DO NOT INDUCT VOMITING, keep person warm, quiet and get immediate medical attention. Never give duce vomiting if the victim is unconscious or having convulsions. Aspiration of material into vomiting can cause chemical pneumonitis which can be fatal.
and the contract to the contract of the contra	REACTIVITY DATA ::
OUCT STABILITYINCOMPATIBILITYHAZARDOUS DECOMPOSITION PHAZARDOUS POLYMERIZATION.	
	SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION VENTILATION	A NIOSB/MSHA approved organic vapor respirator must be used with this product. Provide sufficint mechanical (general and/or local exhaust) ventilation to maintain
EYE PROTECTION	Resistant gloves, impervious coveralls, aprons, boots - as necessary to prevent skin contact.
SECTION 9	ENVIRONMENTAL DATA
	ENVIRONMENTAL DATA Absorb liquid on paper, vermiculite, floor absorbent or other absorbent materials. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent
VASTE DISPOSAL WETHOD	material and shoveled into containers
CTION 10	SHIPPING DATA
O.O.T. PROPER SHIPPING NAM	zdezendeki izanen etaniak izanziaran ezanan ezanan ezanan ezanan ezanan ezanan ezanan ezanan ezanan. B
	Page 2
	contra compania di talbana a campara di establica establica e tropica del compania del compania del compania d

3262 S/G RED ENAMEL

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		###===================================
SECTION 10	SHIPPING DATA	CONT, 1
=======================================		
D.O.T. HAZARD CLASS	Primary - Flammable Liquid: Secondary - None	•
r o.t. labels requireb	Flammable Liquid 3	
.T. PLACARDS REQUIRED	(>1000 lbs.) Flammable Liquid 3	
on/NA CODE	UN-1263	•
BILL OF LADING DESCRIPTION	Paint, 3, UN-1263, PG II	•
SECTION 11	SUPPLIER INFORMATION	•

While Paragon Coatings believes the information set forth herein is accurate, or obtained from sources believed by Paragon Coatings to be accurate, as of the date hereof, this information is furnished without warranty, representation, inducement or license of any kind and Paragon Coatings expressly disclaims all liability for use or reliance upon same. Such data are offered solely for customer consideration, investigation, and verification. Before using any product read its label. Consult Paragon Coatings for further information.

2624 Crown Corkand Sed



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/22/2008

Dear Jim Delaro

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2624

Expiration Date 2/22/2010

Generator: Crown Cork and Seal **Address:** 12910 Jess Pirtle Blvd.

Sugar Land, TX 77478

Waste Information

Name of Waste: Sump sludge TCEQ Waste Code #: 10086031

Container Type:

Detailed Description of Process Generating Waste:

Collection of solid from floor drain

Color: varies

Odor: none

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

GB

DE OK

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	Crown Beverage	Packaging, USA			
Address:	12910 Jess Pirtle				
City, State, Zip:	Sugarland, TX 7	7478			
Contact:	Les Webber		Title:	Manager of Technical Services	
Phone No:	281-276-1357		Fax No:	281 240 2275	
24/hr Phone:	CES-713-676-146	50			
U.S. EPA I.D. No:	TXD980879480			Γ Λ	
State I.D.	34359		SIC Code:	NA	
SECTION 4. Dilli	T. S 🔽	Cama as Alsana			
SECTION 2: Billing Company:	Information – 🖂	Same as Above			
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
_					
SECTION 3: Gener	al Description of th	ne Waste			
				•	
Name of Waste: Sur		ting Waste: Collection of so	olid from floor d	rain	
Domina Description	OI I I OU OO O O O O O O O O O O O O O O	ong waste. Ourseast of St.	71.0 11.011 11.001 C		
Physical State:	Liquid		Powder		
•	☐ Solid	Filter Cake	Combinatio	n ·	
Color: brown/grey/bl	ack Varies	Odor: none			
			•	:	
Specific Gravity (wa	ter=1): <u>1.3</u>	Density: 9 lbs/gal			
Layers:	⊠ Single-phase	Multi-phase			
C		∇ 2 m / □	1 m 1		
Container Type:	∐ Drum	⊠ Tote □	_ Truck	Other (explain)	
Container Size:		<u>1 yd</u>			•
•					
Frequency:		☐ Monthly 🗵	Quarterly	Yearly	
Number of Units (co		Other:			
Texas State Waste C					
		1086311-JP		6031	
Proper U.S. DOT Sh	ipping Name:	Non-RCRA; Non-DC	OT Regulated Ma	aterial	
Class: NA	UN/N	A: NA	PG: NA	RQ: NA	
				- 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (institution of the second
Flash Point	рH	Reactive Sulfides	Reactive C	yanides Solids	
>158 20Û	neutral	<u>0</u> mg/l	<u>0</u> mg/l	80%	
Oil&Grease	TOC	Zine Zine	Copper	Nickel	
>1500mg/l	>1500mg/l	<u>O</u> mg/l	<u>O</u> mg/l	= 0mg/l	

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Concentration Ranges are acceptable	or %
Dirt and rocks and debris	60-90	%
Water	10-40	%
Oil	0-2	%

SECTION 5	: Safety	Kelat	ed Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Analysis- A & B # 96124.01

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of generator knowledge:	LP Metals: LP Volatiles: LP Semi-Volatiles: activity: rrosivity:
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	
SECTION 9: Generato	r's Certification d herein is based on ⊠ generator knowledge and/or ⊠ analytical data. I hereby certify that the above a
	complete and accurate to the best of my knowledge and ability to determine that no deliberate or will

omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

Authorized Signature:

De Long Date: 2.21-08

Printed Name/Title: J/M DELARO ENVIRORMENTAL COOKDINA TOX

			10 10 10 per see
CES USE ONLY (DO NOT WRITE IN THIS	SPACE)		
Compliance Officer: Lychnol	Bland		
Date: 2-21-08	Approved Rejected	The state of the s	
2/214			Service (Section)
Approval Number: L600			
		entre autoritation de la constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della const	ni ai nieminis
		- Sind of	

<u>s</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437				*
Is	this material a wastewater or wastewater sludge? YES	NO			
I	'Yes', complete this section.				
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRI	ATE CATEGO	RY, GO TO TI	HE NEXT PAGE	, ,
Me	tals Subcategory: Subpart A				
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electrop Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment		hating operation	ns	
<u>Oils</u>	Subcategory: Subpart B				
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes				
<u>Org</u>	anics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources				
_	- 2 (数元)				ti da vila i vila i vila vila vila vila vila
		and the second s			

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

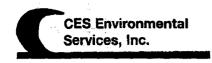
Metals Subcategory
Oils Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

242 1864 1864

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

. <u>Base Prici</u>	ing (incl	uding freight):	-			
\$100.00 pe surcharge.		Freight includ	led when picked up at	time of field service project.	. Dedicated pick-u	ρ \$70.00/hr plus fuel
	,					
Contamin	otion I	imits (mayimiy	m limit before surch	argas annivi		
	auon L	IIIII (IIIAAIII)U	in mint before suren	arges appry).		
none						
						* 49
L						
Surcharge	<u>Pricing</u>	<u>u</u>				
none					· · · · · · · · · · · · · · · · · · ·	
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		equirements:			<u></u>	
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water	or ph	ose for	pH, TOC am	d total phenolic	-5.	· · ·
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L						
Treatmen	t and H	andling Protoc	ol:			
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Treated W	Vastewa	ter Discharge S	Subcategory:			. 4. . 4.34 · 城.
				12.8 (3.5 4).		Committee of the commit
] Subcat	egory A	Subcategory B	☐ Subcategory C	Artist (mile) (Artisteller) (f. 1887 am heissel (1974) agusti	The state of the s
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PROCESS FACILITY INFORMATION (CES USE ONLY!!)

na .					
Management for Prod	luct Recovered/Recycled (if a)	onlicable):			
na					

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	Section 1			THE WAR BOARD AND	
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Laboratory Analysis Report

Total Number of Pages: 15

Job ID: 96124



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project ID:

03-81-5020 Crown Cork & Seal-Sugarland

Report To:

Client Name:

Attn:

Client Address:

City, State, Zip:

P.O.#.:

Sample Collected By:

Date Collected: 01/29/08

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Containment Sump

Sludge

96124.01

Released By:

Title:

Kathy Danford Project Manager

Date:

02/01/2008



This Laboratory is NELAP (T104704213-07-TX) accredited.

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

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Date Received: 01/29/2008 14:11

LABORATORY TEST RESULTS

AB

Job ID: 96124

Date 2/1/2008

Client Name: Project ID:

03-81-5020 Crown Cork & Seal-Sugarland

Client Sample ID:

Containment Sump

Date Collected:

01/29/08

Time Collected:

09:15

Job Sample ID:

96124.01

Attn:

Sample Matrix

Sludge

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)						··-	
	Ignitability	>150	°F	1			01/30/08 09:00	SG
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.1	5.0	02/01/08 14:54	SC
	Barium	0.155	mg/L	1	0.1	100.0	02/01/08 14:54	SC
	Cadmium	BRL	mg/L	1	0.1	1.0	02/01/08 14:54	SC
	Chromium	BRL	mg/L	1	0.1	5.0	02/01/08 14:54	SC
	Lead	BRL	mg/L	1	0.1	5.0	02/01/08 14:54	SC
	Selenium	BRL	mg/L	1	0.5	1.0	02/01/08 14:54	SC
	Silver	BRL	mg/L	1	0.1	5.0	02/01/08 14:54	SC
SW-846 7.3	Reactivity							
	Reactive Cyanide	BRL	mg/Kg	1	25		01/30/08 11:35	KS
SW-846 7.3	Reactivity							
	Reactive Sulfide	BRL	mg/Kg	1	25		01/30/08 10:05	KS
SW-846 7470A	TCLP Metals, Mercury		.					
/// 010 / 1/ 0/A	Mercury	BRL	mg/L	1	0.002	0.2	01/30/08 11:46	RB
SW-846 8260B	TCLP VOC			_			0-, 00, 00	
W-040 0200B	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6	01/30/08 13:34	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5	01/30/08 13:34	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5	01/30/08 13:34	HW
	Benzene	BRL	mg/L	1	0.13	0.5	01/30/08 13:34	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5	01/30/08 13:34	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70	01/30/08 13:34	нW
	Chloroform	BRL	mg/L	1	0.13	6	01/30/08 13:34	HW
	MEK	BRL	mg/L	1	0.13	200	01/30/08 13:34	HW
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7	01/30/08 13:34	HW
	Trichloroethylene	BRL	mg/L	1	0.13	0.5	01/30/08 13:34	HW
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2	01/30/08 13:34	HW
	1,2-Dichloroethane-d4(surr)	105	%	1	70-130		01/30/08 13:34	HW
	Dibromofluoromethane(surr)	99.3	%	1	70-130		01/30/08 13:34	HW
	p-Bromofluorobenzene(surr)	106	%	1	70-130		01/30/08 13:34	HW
	Toluene-d8(surr)	98.4	%	1	70-130		01/30/08 13:34	HW
W-846 8270D	TCLP Semivolatiles	•••		_			,,	
00-040 02/UD	1,4-Dichlorobenzene	BRL	mg/L	10	0.5	7.5 D1	01/31/08 13:10	ML
	2,4,5-Trichlorophenal	BRL	mg/L	10	0.5	400	01/31/08 13:10	ML
	2,4,6-Trichlorophenol	BRL	mg/L	10	0.5	2	01/31/08 13:10	ML
	2,4-Dinitrotoluene	BRL	mg/L	10	0.5	0.13	01/31/08 13:10	ML
	2-Methylphenol	BRL	mg/L	10	0.5	200	01/31/08 13:10	ML
	z-meuryiphenor	DINE	mg/L	10	0.5	200	01/01/00 10:10	I'IL

LABORATORY TEST RESULTS

Job ID: 96124

2/1/2008 Date

Client Name: Project ID:

03-81-5020 Crown Cork & Seal-Sugarland

Client Sample ID:

Containment Sump

Date Collected:

01/29/08

Time Collected:

09:15

Other Information:

Job Sample ID:

Attn:

Sample Matrix

96124.01 Słudge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	TCLP Semivolatiles								
	Hexachlorobenzene	BRL	mg/L	10	0.5	0.13		01/31/08 13:10	ML
	Hexachlorobutadiene	BRL	mg/L	10	0.5	0.4		01/31/08 13:10	ML
	Hexachloroethane	BRL	mg/L	10	0.5	3		01/31/08 13:10	ML
	Nitrobenzene	BRL	mg/L	10	0.5	2		01/31/08 13:10	ML
i	Pentachlorophenol	BRL	mg/L	10	12.5	100		01/31/08 13:10	ML
l	Pyridine	BRL	mg/L	10	0.5	4		01/31/08 13:10	ML
	2,4,6-Tribromophenol(surr)	72.4	%	10	10-120			01/31/08 13:10	ML
	2-Fluorobiphenyl(surr)	78.9	%	10	30-115			01/31/08 13:10	ML
	2-Fluorophenol(surr)	61.5	%	10	20-115			01/31/08 13:10	ML
	Nitrobenzene-d5(surr)	72.9	%	10	20-120			01/31/08 13:10	ML
	Phenol-d6(surr)	9.70	%	10	15-120		S6	01/31/08 13:10	ML
	p-Terphenyl-d14(surr)	90	%	10	30-140			01/31/08 13:10	ML
SW-846 9045D	Corrosivity, pH								
	рH	7.21	s.u.					01/30/08 10:00	SG
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	200	2540			01/30/08 13:51	HK
	>C12-C28	10793	mg/Kg	200	3640			01/30/08 13:51	HK
	>C28-C35	129296	mg/Kg	200	3920			01/30/08 13:51	HK
	Total C6-C35	140089	mg/Kg	200				01/30/08 13:51	HK
	1-Chlorooctane(surr)	N/A	%	200	50-149		S 4	01/30/08 13:51	HK
	Chlorooctadecane(surr)	N/A	%	200	50-14 9		S4	01/30/08 13:51	HK

Job ID: 96124

01/30/08

Date:

2/1/2008

Analysis : Corrosivity, pH

Method:

SW-846 9045D

Reporting Units:

s.u.

QC Batch ID: Qb08013005

Created Date:

Created By: Sgarcía

Samples in This QC Batch: 96124.01

QC Type: Duplicate QC Sample ID: 96120.01

QCSample RPD Sample Units RPD CtrlLimit Parameter Result Result Qual 6.90 0.14 pН 6.91 s.u. 5

QC Type: LCS and LCSD LCS LCS LCSD LCSD RPD Assigned Result Assigned Result RPD CtrlLimit Tolerance Qual Parameter рН 4.00 4.01 3.95-4.05

AB

Job ID: 96124

Date:

2/1/2008

Analysis: Total Petroleum Hydrocarbons

Method: TX 1005

Reporting Units : mg/Kg

QC Batch ID: Qb08013011

Created Date: 01/29/08

Created By : Hkhuc

Samples in This QC Batch: 96124.01

Sample Preparation: PB08013012

Prep Method: TX 1005

Prep Date: 01/29/08 14:30 Prep By:

Hkhuc

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	R ptLimit	Qual
C6-C12]	BRL	mg/Kg	1	12.7	
>C12-C28		BRL	mg/Kg	1	18.2	
>C28-C35		BRL	mg/Kg	1	19.6	ĺ
Total C6-C35		BRL	mg/Kg	1		

QC Type: LCS a	ind LCSD					· · · · · · · · · · · · · · · · · · ·				
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	528	106	500	529	106	0.18	20	75-125	
>C12-C28	500	533	107	500	528	106	0.94	20	75-125	1
>C28-C35	500	530	106	500	534	107	0.75	20	75-125	1

QC Type: MS and MSD	QC Type: MS and MSD											
QC Sample ID: 96102.01												
 Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual	
C6-C12	BRL	500	578	115	500	563	112	2.63	20	75-125	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
>C12-C28	BRL	500	590	116	500	584	115	1.02	20	75-125		
>C28-C35	BRL	500	523	103	500	525	104	0.38	20	75-125		

AB

Job ID: 96124

Date:

2/1/2008

Analysis : Ignitability (Flash Point)

Method:

SW-846 1010

Reporting Units:

.-

QC Batch ID: Qb08013014

Created Date: 01/30/08

Created By: Sgarcia

Samples in This QC Batch: 96124.01

 QC Type: Duplicate

 QC Sample ID:
 96080.01

 QCSample Sample Parameter
 Sample Result Result Units RPD CtrlLimit
 Qual

 Ignitability
 >150
 >150
 °F
 20

QC Type:	LCS and LCSE)									
Darameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oue!
Parameter		Spk Added	Result	70 KEC	Spk Added	Result	70 KeC	KPD	COILITIE	CUILIBIE	Qual
Ignitability		83	85	102	83	86	104	1.17	20	75-125	

Job ID: 96124

Date:

2/1/2008

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units:

mg/L

QC Batch ID: Qb08013020

Created Date: 01/30/08

Created By: Rbairamadgi

Samples in This QC Batch: 96124.01

Digestion:

PB08013019

Prep Method: SW-846 7470A

Prep Date: 01/30/08 09:00 Prep By:

Rbairamadgi

TCLP Prep:

PB08013009

Prep Method: SW-846 1311

Prep Date: 01/29/08 17:00 **Prep By:**

Ksudha

QC Type:	Method	Blank
----------	--------	-------

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.002	

-	Tyne:	100	 I CCD	

 Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0050	100	0.005	0.0050	100	0	20	71-143	T

QC Type: MS and MSD

QC Sample ID:	96080.01										- 1
L	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury	BRL	0.005	0.0050	100						61-175	

AB

Job ID: 96124

Date:

2/1/2008

Analysis: Reactivity

Method:

SW-846 7.3 Rep

Reporting Units:

mg/Kg

QC Batch ID: Qb08013028

Created Date: 01/30/08

Created By: Ksudha

Samples in This QC Batch: 96124.01

Sample Preparation: PB08013

PB08013023 **Prep Method :** SW-846 7.3

Prep Date: 01/30/08 10:00 Prep By:

Ksudha

QC Type: Method Blank

QC Type: Duplicate

QC Sample ID: 96080.01

QCSample Sample RPD
Parameter Result Result Units RPD CtrlLimit

 Parameter
 Result
 Result
 Units
 RPD
 CtrlLimit
 Qual

 Reactive Sulfide
 BRL
 BRL
 mg/Kg
 20

QC Type: LCS and LCSD

7 - 7										
1	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Reactive Sulfide	1000	880	88	1000	920	92	4.44	20	40-120	

Job ID: 96124

Date:

2/1/2008

Analysis : Reactivity

Method:

SW-846 7.3

Reporting Units: mg/Kg

Quai

QC Batch ID: Qb08013029

Created Date: 01/30/08

Created By : Ksudha

Samples in This QC Batch: 96124.01

Sample Preparation: PB08013024

Prep Method: SW-846 7.3

Prep Date: 01/30/08 11:30 **Prep By:**

Ksudha

QC Type: Method Blank

Parameter CAS # Result Units D.F. **RptLimit** Qual Reactive Cyanide BRL mg/Kg 25

QC Type: Duplicate

QC Sample ID: 96080.01

	QCSample	Sample			RPD	
Parameter	Result	Result	Units	RPD	CtrlLimit	
Reactive Cyanide	BRL	BRL	mg/Kg		20	

QC Type: LCS and LCS	D									
Davameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Ousl
Parameter	Spk Audeu	Result	70 Rec	SPK Mudeu	Kesuit	70 NEC	KPU	CUILITIE	Cultillit	Qual
Reactive Cyanide	5.0	2.90	58	5.0	3.16	63.2	8.58	20	40-120	

AB

Job ID: 96124

Date:

2/1/2008

Analysis : TCLP VOC

Method:

SW-846 8260B

Reporting Units:

mg/L

QC Batch ID: Qb08013118

Created Date : 01/30/08

Created By: Whuimei

Samples in This QC Batch: 96124.01

Sample Preparation :

PB08013115

Prep Method: SW-846 5030C

Prep Date: 01/30/08 10:00 Prep By:

Whuimei

TCLP Prep :

PB08013009

Prep Method: SW-846 1311

Prep Date: 01/29/08 17:00 **Prep By:**

Ksudha

QC Type: Method Blank	•						
Parameter	CAS #	Result	Units	D.F.	RptLimit	C	Qual
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.13		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15		
Benzene	71-43-2	BRL	mg/L	1	0.13	[
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13		
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15		
Chloroform	67-66-3	BRL	mg/L	1	0.13	1	
MEK	78-93-3	BRL	mg/L	1	0.13	·	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	· .	
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	1	
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1		

QC Type: LCS and LC	SD						-		N.	
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.500	0.486	97.2	0.500	0.482	96.4	0.82	25	70-130	
Benzene	0.500	0.489	97.8	0.500	0.489	97.8	0	25	70-130	
Chlorobenzene	0.500	0.522	104	0.500	0.499	99.8	4.51	25	70-130	1
Trichloroethylene	0.500	0.486	97.2	0.500	0.486	97.2	0	25	70-130	

QC Type: MS and MS QC Sample ID: 9612											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.500	0.481	96.2						70-130	
Benzene	BRL	0.500	0.487	97.4]			70-130	ļ
Chlorobenzene	BRL	0.500	0.506	101			j		}	70-130	1
Trichloroethylene	BRL	0.500	0.486	97.2	1 1				[70-130	[

Job ID: 96124

Date:

2/1/2008

Analysis : TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units: mg/L

QC Batch ID: Qb08013120

Created Date: 01/31/08

Created By : Mli

Samples in This QC Batch: 96124.01

Extraction:

PB08013110

Prep Method: SW-846 3510C

Prep Date: 01/31/08 09:30 **Prep By:**

Lwang

TCLP Prep:

PB08013009

Prep Method: SW-846 1311

Prep Date: 01/29/08 17:00 **Prep By:**

Ksudha

QC Type: Method Blan	k					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05	
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05	l
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05	
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05	
2-Methylphenol	95-48-7	BRL	mg/L	1	0.05	
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05	
Hexachiorobenzene	118-74-1	BRL	mg/L	1	0.05	ł
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05	1
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05	
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05	l
Pentachiorophenol	87-86-5	BRL	mg/L	1	1.25	
Pyridine	110-861	BRL	mg/L	1	0.05	

QC Type: LCS and LCS	D							<u></u>		
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.250	0.153	61.2	0.250	0.153	61.2	0	35	24-134	
2,4,5-Trichlorophenol	0.250	0.159	63.6	0.250	0.161	64.4	1.25	35	6-115	
2,4,6-Trichlorophenol	0.250	0.144	57.6	0.250	0.133	53.2	7.94	35	4-138	1
2,4-Dinitrotoluene	0.250	0.156	62.4	0.250	0.155	62	0.64	35	32-114	}
2-Methylphenol	0.250	0.137	54.8	0.250	0.136	54.4	0.73	35	6-132	
3- & 4-Methylphenols	0.500	0.252	50.4	0.500	0.251	50.2	0.39	35	29-132	
Hexachlorobenzene	0.250	0.178	71.2	0.250	0.178	71.2	0	35	44 -142	
Hexachlorobutadiene	0.250	0.155	62	0.250	0.157	62.8	1.28	35	20-124	}
Hexachioroethane	0.250	0.153	61.2	0.250	0.153	61.2	0	35	14-136	
Nitrobenzene	0.250	0.162	64.8	0.250	0.161	64.4	0.61	35	38-146	1
Pentachlorophenol	0.250	0.159	63.6	0.250	0.149	59.6	6.49	35	25-125	1
Pyridine	0.250	0.097	38.8	0.250	0.101	40.4	4.04	35	6-112	<u></u>

Job ID: 96124

Date:

2/1/2008

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units: mg/L

QC Batch ID: Qb08020111

Created Date: 02/01/08

Created By : Scuello

Samples in This QC Batch:

96124.01

Prep Method: SW-846 3010A

Prep Date: 02/01/08 09:30 Prep By:

Scuello

Digestion: TCLP Prep: PB08020104 PB08013009

Prep Method: SW-846 1311

Prep Date: 01/29/08 17:00 **Prep By:**

Ksudha

QC Type: Method Blank	C					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.1	 T
Barium	7440-39-3	BRL	mg/L	1	0.1	1
Cadmium	7440-43-9	BRL	mg/L	1	0.1	
Chromium	7440-47-3	BRL	mg/L	1	0.1	
Lead	7439-92-1	BRL	mg/L	1	0.1	ł.
Selenium	7782-49-2	BRL	mg/L	1	0.5	
Silver	7440-22-4	BRL	mg/L	1	0.1	

QC Type:	LCS and LCSI)									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		1	0.999	99.9						80-120	T
Barium		1 1	0.950	95				ĺ	1	80-120	1
Cadmium		1	0.992	99.2						80-120	
Chromium		1 1	0.913	91.3		i i]		80-120	1
Lead		1	0.905	90.5					1	80-120	1
Selenium		1 1	0.981	98.1	1				1	80-120	
Silver		1	0.962	96.2			-		1	80-120	1

QC Type: MS and Ms	SD .										-
	01.04										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	1.88	93	2	2.03	100	7.67	30	45-138	
Barium	0.282	2	1.93	82.4	2	1.98	84.9	2.56	25	3 9 -135	ł
Cadmium	BRL	2	1.72	86	2	1.84	92	6.74	25	56-125	[
Chromium	BRL	2	1.70	84.8	2	1.82	90.8	6.82	25	52-125	
Lead	BRL	2	1.69	84.4	2	1.81	90.4	6.86	25	55-125	ļ
Selenium	BRL	2	1.85	90.4	2	1.97	96.4	6.28	25	18-137	
Silver	BRL	2	1.82	91	2	1.95	97.5	6.9	25	26-148	

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Post-Wt

ppm

RPD

surr

TNTC

Q

Pre-Wt

ReaLimit

RptLimit

Post Weight

Qualifier

Surrogate

Time

parts per million

Previous Weight

Regulatory Limit

Reporting Limit

Relative Percent Difference

Too numerous to count



Job ID :

96124

Date:

2/1/2008

General Term Definition

Back-Wt BRL cfu

Back Weight

Below Reporting Limit colony-forming units

Conc. D.F.

Concentration Dilution Factor

Front-Wt LCS

Front Weight

LCSD

Laboratory Check Standard Laboratory Check Standard Duplicate

MS Matrix Spike

MSD

Matrix Spike Duplicate

MW

Molecular Weight

Qualifier Definition

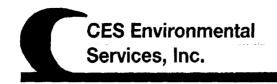
D1 Sample required dilution due to matrix effects.

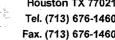
<u>S4</u> Surrogate not available due to dilution of sample extract for quantification.

S6

Surrogate recovery is outside control limits due to matrix effects.

2625 Allstate Ground water





Waste Pre-Acceptance/Approval Letter

Date 2/26/2008

Dear John Rahmatian

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2625

Expiration Date 2/26/2010

Generator: Allstate Groundwater Control LP @ End of T.C. Jester North of F

End of T.C. Jester North of FM 1960 Address:

Houston, TX

Waste Information

Name of Waste: Pond water with diesel

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Less than 50 gallons of diesel spilled into a pond of water

Color: slightly yellow to clear Odor: diesel odor pH: neutral

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

OK PFI sec. 4

CES Environmental Services, Inc.

4904 Griggs Road

Hot ston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

		ottp://wv CEQ Industris EPA ID No: T		ite Permit			
		CIAID XIV. I			VXC1101 20200		
SECTION 1: Gene		- A					
Company:	AllState Grounds		060)				
Address: City, State, Zip:	End of T.C. Jeste Houston, TX (L		900)				
Contact:	John Rahmatian	niknown)	,	Title	Partner		
Phone No:	None			Fax No:	None		
24/hr Phone:	CES-713-676-14	60		- 124,102	110110		
U.S. EPA I.D. No:	NA			-			
State I.D.	NA			SIC Cod	e:		
SECTION 2: Billin	ng Information —	Same as Above					
Company:	Allstate Groundwat			_			·
Address:	P.O. Box 266246						
Cîty, State, Zîp:	Houston, TX 7720	7-6246					
Contact:	John Rahmatian		Title:	Partn er			
Phone No:	713-644-2400		Fax No:	713-(44-	3003		
SECTION 2. Cons	ral Description of the	he Wasta					
	ond Water with diese						
Detailed Descriptio	n of Process Genera	iting Waste: Les	is than 50 gal	lons of lies	el spilled into a po	ond of water.	
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter C	ake [Powder Consbin	ation	r	
Color: Slight vellow	to clear	Odor: diesel od	<u>or</u> ./				
Specific Gravity (w	ater=1): .98	Density: 1.	lbs/gal				ei P
Layers:	Single-phase		ılti-phase				
Container Type:	☐ Drum	☐ Tote	····	~ Truck		Other (explain)	and the same of th
Container Size:				<u>50(±0</u>		• • •	
				<u> </u>	新しから 5 m を発表した。 2000年		Two the
_	Person 1						en en en en en en en en en en en en en e
Frequency:	Weekly	Month!	_	= Qu irte	rly 🗀 📉	Yearly	
Number of Units (co		Other					
Texas State Waste (Code No:	RECYCL	E			A 12.7	
Proper U.S. DOT S	hipping Name:	Non-RC	RA; Non-DO	T Regu ate	l Material	······	19.00 mg 1 mg 2 mg 2 mg 2 mg 2 mg 2 mg 2 mg 2
Class: NA	UNN	NA: NA	CARL CARL CARL	PG:	NA	RQ: NA	
day y				• مودون العدد . أعدد الله الله		edit og de en en en en en en en en en en en en en	4 AS A CASA
Flash Point	pH	Reactive Sulfi	des	1	e Cyanides	Solids	
150 00 5	neutral	Omg/l		Om :/1		<2%	
Oil&Grease >1500mg/l	TOC=	Zinc Omg/I		Coppe	Nicke		

And a second section of the section of the section of t

SECTION 4: Physical and Chemical Data

GOMPONENTS PABLE	Concentration	Ultita
The waste consists of the following materials	Ranges are acceptable	or %
diesel	0-1	%
Water	98-100	%
Leaves, Twigs and dirt	0-2	%
,		

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level \underline{D}

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>CES Analysis</u>

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, VAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on 🖂 generator knowledge and/or 🔀 analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willfu
omissions of composition properties exist and that all known or suspected he zards have been disclosed. I certify that the material
tested are representative of all materials described by this document.
Authorized Signature Mahle Wash

	Andrewed Organical	· Comment of the second				·		
	Printed Name/Title:	, ·	RAHMAZ	TAN	_Member	Mesicont		
	, william	******	The state of the s					
	CES USE ONLY (DO NOT	WRITE IN THIS SPACE	E)				/ 345	
	Compliance Officer:	John Th	anga			19-1		,
-	Date: 2-26-t	Appro	oved Rejected		**************************************		Signature and the second	
			主献 率					
_	Approval Number:	2625					A A	
į	and the second		Company Compan			2000 (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000) (2000)	Transition of the Control of the Con	<u> </u>
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	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from e Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equatorategory: Suhpart B		ng operations
_	Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from e Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equ		ng operations
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_	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equ		ng operations
_	Alkaline and acid solutions used to clean metal parts or equ	uipment	
_	· ·	aipment	
Ous S	ideategory: Subpart B		
	Used oils		
	Oil-water emulsions or mixtures		
=	Lubricants		
	Coolants Contaminated groundwater clean-up from petroleum source		
Ħ	Used petroleum products	CS	
	Oil spill clean-up		
	Bilge water		
\vdash	Rinse/wash waters from petrolcum sources		
	Interceptor wastes Off-specification fuels		
	Underground storage remediation waste		
	Tank clean-out from petroleum or oily sources	# 	
Ш.	Non-contact used glycols		
	Aqueous and oil mixtures from parts cleaning operations		
LJ .	Wastewater from oil bearing paint washes		H Marian Marian
Organi	cs Subcategory: Subpart C		1 16 mm ² , 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	andfill leachate		And the state of t
片 :	Contaminated groundwater clean-up from non-petroleum so	ources	er a ser en en en en en en en en en en en en en
	Solvent-bearing wastes Off-specification organic product		and the confidence of the conf
H	itill bottoms	- State Signature - State Signature - State Signature - State Signature	
	Byproduct waste glycol		
'	Vastewater from paint washes	ETT 1 Commission	
<u>Ц</u>	Vastewater from adhesives and/or epoxies formulation		
H	Vastewater from organic chemical product operations	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	- Constitution of the contract dates (Constitution of the Consti
المستداد المسا	ank clean-out from organic, non-petroleum sources		
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3.464		Cana	

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any cf the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be class fied in the organics subcategory.

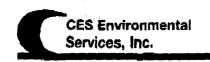
☐ Metals Subcategory

Organics Subcategory

SECTION 11: Additional Instructions

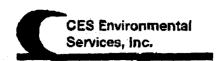
If you cannot determine the correct subcategory in Section 9 and you did not fi mish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

No. 483,4650 4844 6



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (inclu	ding freight):		
	10 cents per gallon	Transportation \$70.00/hr plus Fuel	Surcharge	
				,
	· ·			
2.	Contamination Lin	<u>nits (maximum limit before surch:</u>	arges apply):	
	NA			
1				
3.	Surcharge Pricing:			·
	NA.			
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l				\$ 14
4.	Special Testing Rec	wirements:		
	the run off.	TOC and phenolics		
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5.	Treatment and Har			wan ni
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6.	Treated Wastewate	r Discharge Subcategory:		
		A same of Silver		
		gory A 🔲 Subcategory B	Sub sate gory C	
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	and the second s		and a supplied for particular form	· ·
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PROCESS FACILITY INFORMATION (CES USE ONLY!!)

8. Management	for Product Reco	vered/Recycled (if	applicable);		
NA					
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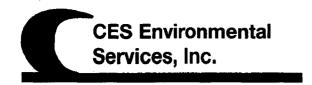
ALLSTATE GROUNDWATER CONTROL, L.P.

Contract Dewatering • Sale • Rental • Service

From: John Rahmatian
Date: 2/25/08
Fax: 713-676-1676
Pages: 7
omment 🗌 Picase Review 🗌 For Approvat

Comments:

P.O. Box 266246 • Houston TX 77207-6246 • Phone: 713 644-2400 • Fax: 713-644-3003



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 02/22/08

To: Gary Brauckman

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

From: Miles Root Lab Memo: 08-024

Subject: Allstate Houston Water Evaluation 0208-47

A sample from Allstate, Houston, representing a diesel spill into water has been evaluated for suitability to process at CES. This sample is evaluation 0208-47. There is a potential to receive one or two trailers of this material. This sample looks very good with only the slightest partial sheen of diesel. The flash point is greater than 140 deg F, the TOC is a very low 710 and the sample has a pH of 6. There is not enough diesel to recover on the evaluation sample, so the actual material receipt will need to be looked at carefully to see if any recoverable diesel is present. We should be able to handle this water at a minimum charge of \$.10/gallon.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/26/2008

Dear Steve Sams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2626

Expiration Date 2/26/2010

Generator: Rohm & Haas

Address: 100 Independence Mall West

Philadelphia, PA 19106

Waste Information

Name of Waste: Aomatic Red GSX (product) (Spill)

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Is blend of single phase liquid, solvent soluble concentrated dyes in a xylene solvent syst

Color: dark red

Odor: aromatic

pH: na

Physical State:

Incompatibilities: na

Safety Related Data/Special Handling:

chemical splash goggles, face shield / chem resistant gloves

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Sec. 3'. Process Generating
.... liquid collected from 49
a spill. Ph

CES Environmental Services, Inc.

then OK

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gen	erator Information						
Company:	ROHM ! HAS	· ·					
Address:	100 INDEPENDENCE MAIL WEST						
City, State, Zip:		Pa. 1966-2379					
Contact:	STEVE SAMS	,	Title:	AUTH. BOOKER FOR HULCHER			
Phone No:	713-530-4550		-	381-424-7748			
24/hr Phone:	381~ 838-34cc						
U.S. EPA I.D. No:	PA00209204	3					
State I.D.	11000	of A	SIC Code:	.ar A			
J-04-0-2-2-2-		N.F.		. py. r \			
SECTION 2: Billi	ng Information – 🗌 Sai	ne as Above					
Company:	PHOENIX POLLUTION	CONTROL ! ENVIRO	NIMENTAL SE	WILES INC.			
Address:	720 S. LYNCHBUR						
City, State, Zip:	BAYTOWN TX. 72						
Contact:	STEVE Same	Title:	Augu Benken	FOR GENERATOR			
Phone No:	281-838-3400	Fax No:	381-434-774				
	201 (125 0 100		<u> </u>				
SECTION 3: Gen	eral Description of the V	Vaste					
			•				
Name of Waste:	LUTOMATE RED 6	ks (Runna) (S	PiLL)				
Detailed Description	n of Process Generating	Waste: IS A BLENT	OF SWELE	MASE LIQUID SHIP OF			
Solvale Con	CENTRATED DYES IN	A KYLENE SOLVENT	SYSTEM.	MASE LIQUID SOLVENT			
Physical State:	X Liquid	☐ Sludge	Powder				
	Solid	Filter Cake	Combination				
	Sona	rater Cake					
Color: DARK PET		or: Azomatic					
Color: Dass Col	2	or: roedinatic		1 1 1 2 cm al = 2			
	<u>_</u>		NOTA LO	nteins phonolic empos? enteins para-Substituted phenol correporands			
Specific Gravity (w	/ater=1): Mac /	Density: <u>0.99</u> lbs/gal	/·· 23				
			Nation C	inderns sava-Substituted phenol			
Layers:	Single-phase	Multi-pitase	1000	Gorania			
	- •	•		posterio			
Container Type:	🔀 Drum	Tete [] Truck	Other (explain)			
Container Size:	on a Pak						
Container Size.	COMUNE						
Frequency:	□ Weekly	Monthly	Quarterly	⊠ Vearly			
Number of Units (c	ontainers):	Other:					
				원생생 설립 (1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1967년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 1965년 - 196			
Texas State Waste	Code No.	cycle		·			
Proper U.S. DOT S	hipping Name:	FLAMMABLE LIQU	uds . N.O.S.	(ETHYLBENZENE XYLENE)			
Class: 2	UN/NA:		PG:	RQ:			
Class: 3	OWNA.	<u>an 1993</u>	10.	XYLENE YYLENE			
		•		en jakatan			
Flash Point	DH R	cactive Sulfides	Reactive Cy	anides Solids			
<u>>a8</u> € 83	, - ,	<u>UA_mg/l</u>	Keactive Cy	N/A %			
Oil&Grease	TOC	Zinc	Copper Copper	Nickel Nickel			
N/A mg/l	N/A mg/l	N/A mg/	ν/A mg/l				

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
C.I. SOLVENT RED 164 CASNO. 92257-31-3	126-03 61-65	%
C.I. SULVENT YELLOW CAS-NC. 27190-28-1/65087-00-5/	6831e-04-3 1-4	%
ETHYLBENZENE CAS-NC. 100-41-4	5-7	%
XYLENE CAS-NO. 1330-30-7	235-3126-31	4/2
	2	
SECTION 5: Safety Related Data		
If the handling of this waste requires the use of special protective		
If the handling of this waste requires the use of special protective. Hemical Speasa Godelies ! Face Shield / CHemical - Re		
If the handling of this waste requires the use of special protective. Hemical Spease Gottones ! Face Shield / CHemical - Reserved Section 6: Attached Supporting Documents	SISTANT CALLES	ge.
If the handling of this waste requires the use of special protective CHEMICAL Speak GOLEAS ! FACE SHIELD / CHEMICAL - RESERVED OF SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this f	SISTANT CALLES	ge.

Please list all incompatibilities (if any):

N/A

Ignitability:

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

•	
TCLP Metals:	×
TCLP Volatiles:	×
TCLP Semi-Volatiles:	¥Č.
Reactivity:	¥
Corresivity:	¥.

SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/c analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledg, and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

· Eddio ibed Odjižedie		<u> </u>
Printed Name/Fitte: Sie Sms / Aun	Broken For Gov.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Lower Langue	Additional Information:	
Date: Z-Z6-07 (Approved) Rejected Approval Number: Z6Z6		

SECTION 10:	Waste Receipt Class	sification Under 40 CFR 43'	<u>7</u>			
Is this material	a wastewater or waste	ewater sludge? YES	NO NO			
If 'Yes', compl	lete this section.					
PLEASE CHE	CK THE APPROPR	TATE BOX. IF NO APPROP	RIATE CATEGOI	RY, GO TO THE N	VEXT PAGE.	
Metals Subcateg	ory: Subpart A					
Metal finis Chromate Air polluti Spent anoc Incineratio Waste liqu Cyanide-cc Waste acid Cleaning, 1 Vibratory	on control blow down dizing solutions on wastewaters id mercury ontaining wastes great is and bases with or w rinsing, and surface pr deburring wastewater	iludges water and sludges er than 136 mg/l		nating operations		
Oils Subcategory	: Subpart B					
Lubricants Coolants Contamina Used petro Oil spill cle Bilge wate Rinse/wash Interceptor Off-specifi Undergrout Tank clean Non-contact Aqueous an	ted groundwater clear leum products ean-up r waters from petroleu wastes cation fuels nd storage remediation out from petroleum of	n waste r oily sources arts cleaning operations				
Organics Subcate	gory: Subpart C					
Solvent-beau Off-specific Off-specific Still bottom Byproduct Wastewater Wastewater Wastewater Wastewater	ted groundwater clean aring wastes cation organic product as waste glycol r from paint washes	or epoxies formulation al product operations	es de la companya de			
지 (2년 - 14월4) 11일 : 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12년 - 12		ing State Light British (1996) State British (1996)				

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

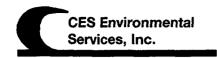
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

	Metals	Subcategory
--	--------	-------------

Oils Subcategory

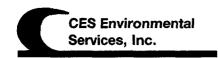
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$58/drum + trans + fsc
2.	Contamination Limits (maximum limit before surcharges apply):
4.	Contamination Limits (maximum nimit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Black Dil Blendable
	Black Di C Blendable dennity
	Vieva 1
5.	Treatment and Handling Protocol:
	mix with black ail
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Black Oil Blenable
8.	Management for Product Recovered/Recycled (if applicable):

Management for 1	Todace Itee	overed/Recycled (it applicable)	<u> </u>	 _
Bland	w/	Black Oil.		

ROHM!HAAS " CONTACT US HOME | ABOUT US | PRODUCTS | INDUSTRIES | NEWS | INVESTORS | CAREERS Home > AUTOMATE" X Series > AUTOMATE" RED G XS > Product Detail Highlights Technical Data MSCS Building and Construction REQUEST INFORMATION | REQUEST A QUOTE | REQUEST SAMPLE | PRINT AUTOMATE™ RED G XS Blend of solvent-soluble dyes provided in a xylene solvent system Electronics and Electronic Devices Find MSDS in USA/English Food and Food Related ROHM THARS Material Safety Data Sheet Industrial Packaging & Paper Pharmaceutical and 1. PRODUCT AND COMPANY IDENTIFICATION Transportation AUTOMATE(TM) RED G XS LIQ Revision date: 09/21/2006 Supplier Rohm and Haas Company 100 Independence Mall West Philadelphia, PA 19105-2399 United States of America For non-emergency information contact: 215-592-3000 **Emergency telephone number** Spili Emergency Health Emergency Chemtrec 215-592-3000 215-592-3000 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS CAS-No. Component Concentration C.I. Solvent Red 164 92257-31-3 61.0 - 65.0% C.I. Solvent Yellow 1.0 - 4.0% Ethylbenzene C.1. Solvent Yellow CAS Numbers: 29190-28-1, 65087-00-5, 68310-04-3 3. HAZAROS IDENTIFICATION **Appearance**

Colour

WARNING! **Hazard Summary** FLAMMABLE LIQUID AND VAPOR INHALATION OF SOLVENT VAPOR OR MIST CAN CAUSE THE FOLLOWING: (RRITATION OF NOSE, THROAT, AND LUNGS HEADACHE NAUSEA CENTRAL NERVOUS SYSTEM (CNS) EFFECTS CAUSES SEVERE EYE IRRITATION. MODERATE SKIN IRRITATION PROLONGED OR REPEATED OVEREXPOSURE TO C.I. SOLVENT RED 164 CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS BASED ON PRELIMINARY RESULTS FROM A SCREENING LEVEL TEST IN EXPERIMENTAL ANIMALS. PROLONGED OR REPEATED OVEREXPOSURE TO XYLENE CAN CAUSE THE FOLLOWING: - REVERSIBLE LIVER IMPAIRMENT - REVERSIBLE KIDNEY IMPAIRMENT PROLONGED OR REPEATED OVEREXPOSURE TO ETHYLBENZENE MAY CAUSE THE FOLLOWING: - KIDNEY EFFECTS - LIVER EFFECTS - LUNG EFFECTS - PITUITARY EFFECTS - THYROLD EFFECTS - TESTICULAR THE FOLLOWING CHEMICALS HAVE BEEN LISTED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS POSSIBLE CANCER CAUSING AGENTS: ETHYLBENZENE (100-41-4)

Potential Health Effects

Primary Routes of Entry:

Inhalation

Eye contact

Skin contact

Dermal Absorption

Eves: The solvent(s) in this material can cause the following:

Severe irritation

conjunctivitis

Skin: The solvent(s) in this material can cause the following:

slight to moderate irritation

Prolonged or repeated skin contact can cause the following;

defatting and drying of the skin which can lead to irritation and dermatitis

The solvent(s) in this material can be absorbed through intact skin.

Solvent(s) can be absorbed through skin with the appearance of initial symptoms of inhalation exposure,

Ingestion: Material is possibly harmful if swallowed.

The solvent(s) in this material can cause the following:

central nervous system depression

drowsiness

dizziness

tiredoess

gastrointestinal irritation

Aspiration into the lungs may cause:

pneumonitis (lung inflammation)

pulmonary edema (fluid in lung tissue and air spaces)

Inhalation:Inhalation of solvent vapor or mist can cause the following:

irritation of nose, throat, and lungs

drowsiness

Lack of coordination

light headedness

labored breathing

Inhalation of high solvent vapor or mist concentrations can cause the following:

pulmonary edema (fluid in lung tissue and air spaces)

Chronic Exposure: Prolonged or repeated overexposure to C.1. Solvent Red 164 can cause adverse reproductive effects based on preliminary results from a screening level test in experimental animals.

Prolonged or repeated overexposure to xylene can cause the following: - reversible liver impairment - reversible kidney impairment

Prolonged or repeated overexposure to ethylbenzene may cause the following: - kidney effects - liver effects - lung effects - pitultary effects thyroid effects - testicular effects

Ethylbenzene

Xviene

ACGIH

Confirmed animal carcinogen with unknown relevance to bumans.

Ethylbenzene Ethylbenzene Ethylbenzene IARC IRIS US CA CRT Possible carcinogen. Not classifiable. Carcinogenic. Not classifiable as a human

Xylene

IARC

IRIS

carcinogen. Classification not possible from

current data. Not classifiable.

4. FIRST AID MEASURES

Inhalation:Remove to fresh air. Oxygen or artificial respiration if needed. Immediate medical attention is required.

Skin contact: Wash off with soap and plenty of water. Remove contaminated clothing. Consult a physician. Wash clothing before reuse.

Eye contact:Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. IMMEDIATELY see a physician. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

Notes to physician

Exposure to xviene can affect the CNS, pulmonary, cardiovascular, and dastrointestinal systems. Ever enzymes, EKG, serum electrolytes, and a chest X-ray should be done in cases of massive exposure. Careful gastric lavage may be indicated.

5. FIRE-FIGHTING MEASURES

Flash point Ignition temperature > 28 °C (> 83.84 °F) SETAFLASH CLOSED CUP

466.0 - 530.0 °C (870.80 - 986.00 °F) Xylene

Lower explosion limit 1.00 %(V)Xylene Upper explosion limit 7.00 %(V) Xylene

Thermal decomposition Combustion generates toxic fumes of the following:, Carbon oxides, nitrogen oxides (NOx)

Suitable extinguishing media:

Use the following extinguishing media when fighting fires involving this material:

Alcohol-resistant foam

域(m) 1. 5.3.

a Prince

Carbon dioxide (CO2)

Dry chemical

Water spray

Specific hazards during fire fighting: Vapors can travel to a source of Ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective sult.

Further Information: Move containers promptly out of fire zone. If removal is impossible, coal containers with water spray.

Remain upwind.

Avoid breathing noxious fumes from fire-exposed material.

Contain run-off

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Methods for cleaning up

Evacuate personnel to safe areas.

Eliminate all ignition sources including those beyond the immediate spill area.

Ventilate the area.

Floor may be slippery; use care to avoid falling.

Contain spills immediately with Inert materials (e.g., sand, earth).

Transfer liquids and solid diking material to separate sultable containers for recovery or disposal.

Avoid breathing vapor.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. Handling and storage

Storage

Storage conditions: Avoid temperature extremes during storage; ambient temperature preferred. Store away from excessive heat (e.g. steampipes, radiators), from sources of ignition and from reactive materials. Ground all metal containers during storage and handling. Keep tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Material can burn; limit indoor storage to approved areas equipped with automatic syninklers. Avoid all ignition sources.

Further Information:

Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required.

- to reside

Ground all containers when transferring material.

Wash after handling and shower at end of work period.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

				Complication of the	
Сотропепт	- North tex	Regulation	Type of listing	- Address	Value
Ethylbenzene		Rohm and Haas		WA	25 ppm
******	A year and the second	Rohm and Haas	· 51	TEL TEL	75 ppm
271		ACGIH	יד	WA 434 mg/m3	100 ppm

ACGIH

543 mg/m3 125 ppm 435 mg/m3 100 ppm

Component	Regulation	Type of listing		Value
Xylene	Rohm and Haas	TWA		Sû ppm
Ayicin	Rohm and Haas	STEL		75 ppm
	Rohm and Haas	Absorbed via skin		
	ACGIH	TWA		100 ppm
	ACGIH	STEL		150 ppm
	OSHA_TRANS	PEL	435 mg/m3	100 ppm
	ZIA	TWA	435 mg/m3	100 ppm
	ZIA	STEL	655 mg/m3	150 ppm

Eye protection: Use chemical splash goggles and face shield (ANSI 287.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): VITON Synthetic Rubber (ragistered Trademark of Dupont Dow Elastomers) SilverShield Gloves Gloves should be removed and replaced immediately if there is any Indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and

Skin and body protection: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI 288.2 requirements or equivalent must be ver workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 1000 ppm organic vapor: Wear a properly fitted NIOSH approved (or equivalent) full-facepiece, air-purifying respirator, OR full facepiece, alcline respirator in the pressure demand mode. Above 1000 ppm organic vapor or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR fullfacepiece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If all mist is present, use R95 or P95 filters.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower,

Engineering measures: Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

liquid dark red Odour Aromatic odor Not Applicable

Boiling point/range 137 - 144 °C (278.60 - 291.20 °F) Xylene

Melting point/range -35,00 °C (-31,00 °F) Xylene

Flash point > 28 °C (> 83.84 °F) SETAFLASH CLOSED CUP

466 - 530 °C (870.80 - 986.00 °F) Xylene Ignition temperature

Lower explosion limit 1.00 %(V)Xylene Upper explosion limit 7.00 %(V)Xylene

Vapour pressure 5.0 - 6.6 mmHg at 20 °C (68.00 °F) Xylene

Relative vapour density 3.6Xviene Water solubility Insoluble Relative density 0.99

Viscosity, dynamic 30.000 - 300.000 mPa.s

<1.00 Xvlene Evaporation rate Percent voiatility 34 - 36 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions This material is considered stable.

> However, avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).

> > 1000

Materials to avoid Acids Strong Alkalis Strong Oxidizers

Hazardous decomposition There are no known hazardous decomposition products for this material.

pencial his voice has he

A. Physics

3. 20.00.00.00

Product will not undergo polymerization. nohmerkation

11. TOXICOLOGICAL INFORMATION

Component: C.I. Solvent Yellow

Acute oral toxicity

LD50 rat >5,000 mg/kg

Component: Ethylbenzene

Acute gral toxicity

LO50 rat 3,500 mg/kg

Component: Xylene

Acute oral toxicity

LD50 rat 4,300 mg/kg

Component: Ethylbenzene

Acute inhalation toxicity

LC50 rat 17.375 mg/l

Component: Xylene

Acute inhalation toxicity

LC50 rat 4 h 29.09 mg/l

Component: Ethylbanzene

Acute dermal toxicity

LD50 rabbit > 15,000 mg/kg

Component: Xylene

Acube dermal toxicity

LD50 rabbit >4,300 mg/kg

Component: C.1. Solvent Yellow

Skin irritation

rabbit No skin irritation

Component: Xylene

Component: C.I. Solvent Yellow

Eve irritation

rabbit Moderate eve irritation

Component: Xylene

Eye irritation

rabbit moderate to severe.

Component: C.I. Solvent Vellow

Sensitization

guinea pig Not a sensitizer,

Component: C.I. Solvent Red 164

Toxicity to reproduction

Preliminary results of a screening level test with C.I. Solvent Red 164 in experimental animals has shown adverse effects on reproduction. The relevance of these findings to humans is unknown, but may be predictive of the potential to cause harm.

Component: C.I. Solvent Red 164

Mutagenicity

Ames mutagenicity:

In vivo micronucleus assay (mouse):

In vitro chromosome aberration (human lymphocytes):

Component: C.I. Solvent Yellow

Not mutagenic in AMES Test. In vivo micronucleus assay (mouse bone marrow cells): Not mutagenic

Component: Ethylbenzeле

Subchronic toxicity

IARC assessment: this product is possibly carcinogenic to humans (Group

2B).

Component: Ethylbenzene

Carcinogenicity: This product contains ethylbenzene. A study conducted by the National Toxicology Program states that lifetime inhalation exposure of rats and mice to high concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. Incidences of testicular adenoma were increased along with increased incidences of thyroid effects in rats at 750 ppm; pitultary effects were observed in female mice at 250 ppm. These effects were not observed in animals exposed to lower concentrations of ethylbenzene (75 ppm). The study does not address the relevance of these results to humans.

Component: Xviene

Subchronic toxicity

CODA

Component: Xviene

Toxicity to reproduction

In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy.

12. ECOLOGICAL INFORMATION

There is no data available for this product.

Ethylbenzene

Ecotoxicity effects

Toxicity to fish

LC50 Rainbow trout (Oncorhynchus myklss) 96 h

4.2 mg/l

Toxicity to algae

EC50 Algae (Seienastrum capricornutum) 72 h

4.6 mg/l

Toxicity to aquatic invertebrates

EC50 Daphnia magna 48 h

2.1 mg/l

Xylene

Ecotoxicity effects

Toxicity to fish

LC50 Rainbow trout (Oncorhynchus mykiss) 96 h

بالمحطأج وسا

13.4 mg/l

Toxicity to aquatic

EC50 Daphnia magna

150 mg/l

- 4 HAV

13. DISPOSAL CONSIDERATIONS

Disposal

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations

14. TRANSPORT INFORMATION

DOT

in a

Proper shipping name UN-No. Class

Flammable liquids, n.o.s. (Ethylbenzene , Xylene) UN 1993

Packing group Reportable Quantity 3 111 Xylene

IMO/IMDG

Proper shipping name

FLAMMABLE LIQUID, N.O.S. (Ethylbenzene , Xylene)

UN-No. Class

3

Packing group

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III:Section 311/312 Categorizations (40CFR370):Acute Health Hazard

Chronic Health Hazard

Fire Hazard

SARA TITLE III:Section 313 Information (40CFR372)

This product contains a chemical which is listed in Section 313 at or above de infinitis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

SARA Title III Components:

Ethylbenzene

1330-20-7 100-41-4

CERCLAInformation(40CFR302.4)

This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below, Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and

CERCLA Components:

1330-20-7 100-41-4

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause birth defects or other reproductive

California (Proposition 65)

This product contains a component or components known to the state of California to cause cancer

Ethylbenzene

100-41-4

16. OTHER INFORMATION

Hazard Rating

	Health	Fire	Reactivity
HMIS	2*	3	0

Legend

	ACGIH	American Conference of Governmental Industrial Hygienists	
	BAC	Butyl acetate	-
Ε.	OSHA	Occupational Safety and Health Administration	
	PEL	Permissible Exposure Limit	l

STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
1	Bar denotes a revision from prior MSDS.

The Information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The Information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1.3

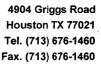
Print Date: 09/23/2006

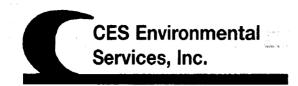
Layout 401135

Previous product in AUTOMATE™ X Series Next product in AUTOMATE™ X Series

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2627





Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Kevin White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2627

Expiration Date 2/28/2010

Generator: Antiqua Apartments

Address: 3197 Main St

La Marque, TX 77568

Waste Information

Name of Waste: PCB oi / dirt TCEQ Waste Code #: CESQ3011

Container Type:

Detailed Description of Process Generating Waste:

Spill clean-up

Color: brown

Odor: hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: na

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Nort coe

CES Environmental

Analytical	Services, Inc.
- Not signed - No QAIC - No Chain y PCB's this is	4904 Griggs Road Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 Cus hy http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900
mortant.	
SECTION 1. Como	Prikap lucation
SECTION 1: General Company:	Antique Apartouts Carner Environtal
Address:	8008 Segual Blod. 3197 Main St.
City, State, Zip:	Galuston Nr. 7250 Le Margue Nr. 77568
Contact:	Kim Title:
Phone No:	251-430 - 1240 Fax No:
24/hr Phone:	
U.S. EPA I.D. No:	CES &C-
State I.D.	CESQG SIC Code:
SECTION 2: Billing	g Information - Same as Above
Company:	Select Environtal
Address:	223 Ward Dr.
City, State, Zip:	Howston Nr. 27029
Contact:	Men white Title: Soles
Phone No:	281-960-3947 Fax No: 713-255-1761
Name of Waste:	ral Description of the Waste Ch oil Dirt of Process Generating Waste: Spill clem-up
Physical State:	Liquid Sludge Powder Solid Filter Cake Combination
Color: Drivn	odor: Hychoco 40-
Specific Gravity (wa	nter=1): \(\frac{\lambda}{\lambda} \to \) Density: \(\frac{\lambda}{\lambda} \text{Des/gal} \)
	ontain any total phenolic compounds? Yes No
Does this material co	ontain any para substituted phenolic compounds? 🔲 Yes 🏻 🏳 No
Layers:	☐ Single-phase ☐ Multi-phase
Container Type: Container Size:	Drum
Frequency: Number of Units (co Texas State Waste C	Code No:
Proper U.S. DOT Sh	UN/NA: Non Read Non Dot Regulated Material PG: NA RQ: NA

No. 9944 P. 2

Approval Number:

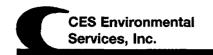
Feb. 27. 2008 10:13AM GARNER ENVIRONMENTAL

SECTION 10: Waste Receipt Classification Under 40 CFR 437				
Is this material a wastewater or wastewater sludge? YES NO				
If 'Yes', complete this section.				
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.				
Metals Subcategory: Subpart A				
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment				
Olls Subcategory: Subpart B				
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes				
Organics Subcategory: Subpart C				
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources				
	-			

(1)	If the w	raste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		raste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess ralues listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	nm: 0.2 mg/L num: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or bove any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$65/your disposal + 70/h-trans +fsc
•	
2.	Contamination Limits (maximum limit before surcharges apply):
	<50 ppm PCBs
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Treatment and Handling Protocol: Class I Waste (Bulkiny) saids or Sludge based on visual
	Class! VVIII (3 //
	on visual
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
/•	Tests for Froduct Recovered/Recycled (II applicable):
8.	Management for Product Recovered/Recycled (if applicable);



GALVESTON, TX 77552 US

ATTN: MICHELLE BEALL

A&II ELECTRIC

PO BOX 3097

Weidmann Olathostic Solutions 8406 Scranton Street + Houston, TX + 77061 (713) 696-1030 + (713) 595-1034 www.weidmann-diagnostics.com



Polychlorinated Biphenyls (PCBs) Report

EPA Method 8082

Accounts 2868

PCB Cinter#s 198591

Unto Received: UZ/06/2008

Date Reported: 02/07/2008

Project (D)

P.O. Numbert VERBAL

Lau Contacts A. HAUFREGT

Lab Captol#	Dage Sampled	Sample Identification Sortal Number	Abalyar ID Batch #	Dato Extracted Date Analyzed	Matrix	Rayits	PLTS Anador	Reporting Undt	
5528363	02/06/200x	ATSCO 100 KVA	Att	02/06/2008	J MIM	14.8 PPA1	1260/1242	,	
		ППОБИСТ	1108-03	02/04/2008				<u> </u>	
552H364	02/06/2008	WESTINGHOUSE 100 KVA	AIL	02/06/2008	MIN	5.6 PPM	1254	T 7	
		73B1289	1108-05	02/06/2008	11111			<u> </u>	
5529365	02/08/2000	WESTNIGHOUSE 100 KVA	All	02/06/2008	MIN	M99 E E	1242	1	
J. 11303	UZ GILLIAN	73D2664	1 (08-05	02/06/2008					
5528366	02/06/2008	WESTINGHOUSE 100 KVA	Att	02/04/2003	MIM	6.2 PPM	1254	ı	
0.521120		68CR47	1108-05	02/06/2048					
5\$2H367	02/06/2008	DE 167 KVA	VII	92/06/2008	MIN	MAGGIS	<1.0 PFM N	T .	
2741.042	7 02 03 10 14	IEZSE99P7QAA	1108-03	02/05/2001					
552H368	02/06/2068	GE 167 KVA	AII	02/06/2008	J MIN	<1.0 PPM	N	Γ', "	
V/20/200	32032000	11293560P71 AA	1(01-05	02/06/2008	1000	- 110 5 1 101	<u> </u>	l	
5528369	02/06/2008	GE 167 KVA	AIL	02/04/2008	MIN	< 1.6 PPM	N	- LA DIVIA	Γ,
	1/2/14/20110	11293563P71AA	1108-05	02/06/3008	73987	- FAFFIII		<u> </u>	
5528370	02/06/200%	GE 167 KYA	All	02416/2008	MIN	6.1 PPM	1254	$\overline{\cdot}$	
2248370	V#VOIANA	782083M71AA	1108-05	02/06/2008	miles	DG FFIG 1234	'		

Antiqua Apartments. 906-08-20037

New money: Other opening units (mg/kg), Solids dry we reporting units (mg/kg). Who reporting units in micrograms (ng). Went reporting units in PPB. All other PCB uses in PPA. Quality control documentation available upon request.

This perfect, indicated image-unders a males of a fell expert of betal approximately sufficiently by the claim. This makes the large and expert the event of an open provided by the claim to despute the large and expert of the event of an open provided by the compared of the event of the eve

QC Chemist A. HAUFRECT

Page 1of 1

A Member of the WICOR Group

Feb. 14. 2008 1:28PM GARNER ENVIRONMENTAL

WEIDMANN DIAGNOSTIC SOLUTIONS 8406 Scranton Street PHONE 713-595-1030 • FAX 713-595-1030 WWW.WEIDMANN-DIAGNOSTICS.COM

Polychlorinated Biphenyl (PCBs) **Quality Control Report**

Client Account: AHELEC

Client: A&H Electric

WACTI Facility: WACTI-Texas

Test Method: PCB-EPA Method 8082

Department Supervisor: Adam Haufrect

Batch Number: 1108-05

Date Analyzed: 06 FEB 2008

PCB Report#: 198591

Method Rlank

Identification	PCB Concentration (PPM)	Aroclor	Lower Control Limit (LCL) (PPM)	Upper Control Limit (UCL) (PPM)
MB	< 1 ND	ND		1.0

Laboratory Control Samule (LCS)

Identification	PCB Concentration (PPM)	Aroclor	Lower Control Limit (LCL) (PPM)	Upper Control Limit (UCL) (PPM)
LC\$ 23	55.2	1242	42.5	57,5

Continuing Calibration Value (CCV)

Identification	PCB Concentration (PPM)	Aroclor	Lower Control Limit (LCL) (PPM)	Upper Control Limit (UCL) (PPM)
CAL 126	.28	1260	.21	.29
CAL 120	.28	1254	.21	.29
CAL 114	.27	1242	.21	.29

Identification	PCB Concentration	Aroclor	Spike Recovery (%)	Lower Recovery Limit (%)	Upper Recovery Limit (%)
5528370	6.1	1254			
5528370\$	36.1	1242	125	70	130
5528370D	6.2	1254			
5528370DS	30.4	1242	119	70	130

QC Comments:

QC Report Approved:

A Member of the WKOR Group



PO Box 3097 Galveston, Texas 77552

(409) 765-7976 phone (409)765-9514 fax

Date: 2/06/08

To:

Weidmann

From: Michelle Beall

Attn: Shipping & Receiving

Pages: |

713-595-1030

8406 Scranton / Houston, Texas 77061

Reference: 44726

5528

These samples are from eight transformers. Please test for PCB content so we can determine how to dispose of them. Test results are needed today if possible. The bottles are labeled per transformer.

Sample 4:

Serial #H098901HP; ATSCO; 100KVA 3/3

Sample 3:

Serial #73B1289; Westinghouse; 100KVA

Sample 2:

Serial #73D2664; Westinghouse; 100KVA

Sample 1:

Serial #68C847; Westinghouse; 100KVA 544

Sample 6:

Serial #H281934P70AA; GE; 167KVA 3/e?

Sample 7:

Serial #H293560P71AA; GE; 167KVA 26

Sample 5:

Serial #H293563P71AA; GE; 167KVA 167

Sample 8:

Serial #J820283M71AA; GE; 100KVA 3775

Let me know if you need any further information or need to do further testing. We would like to dispose of these at the landfill.

Regards, Michelle Beall micbeall@comcast.net

WEIDMANN DIAGNOSTIC SOLUTIONS

8406 Scranton Street PHONE 713-595-1030 • FAX 713-595-1030 WWW.WEIDMANN-DIAGNOSTICS.COM

Date:

02/28/08

To:

Kevin White

Fax #:

713-255-1761

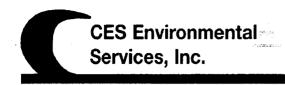
From: Todd Felton

Subject:

QC Documentation

No formal Chain of Custody was provided by A&H but I have attached the received documentation.

A Member of the WICOR Group



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Lance Wiley

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2628

Expiration Date 2/28/2010

Generator: Kinder Morgan - Pasadena Facility

Address: 530 Witter St

Houston, TX 77506

Waste Information

Name of Waste: Recyclable hydrocarbon, water, and sludge mixture

TCEQ Waste Code #: Recycle

Container Type:

vac truck

Detailed Description of Process Generating Waste:

Gasoline and transmix tanks are cleaned. Water, fuel, and solids are removed

Color: varies

Odor: hydrocarbon - gasoline pH: 4-10

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

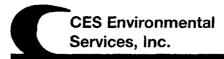
gloves, safety glasses, boots

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Approved by matt

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SIC Code: SECTION 2: Billing Information – Same as Above Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: SECTION 3: General Description of the Waste Recyclable Hydrocarbon, water, and studge nixthing Detailed Description of Process Generating Waste: Gasoline and Transmix tanks are cleaned.

Physical State: Diguid Solids are removed.

Physical State: Downer Down Filter Cake Combination Odor: Hydro carbon - Gasoline Color: Varies Specific Gravity (water=1): ... 75 - /. / Density: ____ lbs/gal Does this material contain any total phenolic compounds? Yes No Does this material contain any para substituted phenolic compounds?
Yes Single-phase Lavers: Multi-phase Truck Other (explain) Drum **Container Type:** Tote **Container Size:** Vac Touck Bo Xes Monthly Quarterly Frequency: Weekly Yearly Other: Number of Units (containers): Texas State Waste Code No: Proper U.S. DOT Shipping Name: UN/NA: Class: na

Oil&Grease TOC Zinc Copper	
SECTION 4: Physical and Chemical Data	
COMPONENTS TABLE The waste consists of the following materials	Concentration Units Ranges are acceptable or %
Water	20- 40 90 90
Rust sand silt	2-60% %
Fuel (Gasoline Transmix etc.)	5-30% %
·	
SECTION 5: Safety Related Data	
If the handling of this waste requires the use of special protective equipmen	t nlease evnlain
- Gloves, Sweety Classes, Boots	s, pieuse explain.
SECTION 6: Attached Supporting Documents	
List all documents, notes, data, and/or analysis attached to this form as part —— Set MSD Sheets	of the waste approval package.
SECTION 7: Incompatibilities	
Please list all incompatibilities (if any):	
- Oxidizers	
SECTION 8: Generator's Knowledge Documentation	
Laboratory analysis of the hazardous waste characteristics, listed below, Wagenerator knowledge:	AS NOT PERFORMED based upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	
SECTION 9: Generator's Certification	
The information contained herein is based on U generator knowledge and/or attached description is complete and accurate to the best of my knowledge ar omissions of composition properties exist and that all known or suspected hazar tested are representative of all materials described by this document.	d ability to determine that no deliberate or willful
Authorized Signature:	Date: <u>2/2</u> 9/0)
Printed Name/Title: LANCE UNG	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Cohan Dlang a	
Date: 2-29-08 Approved Rejected	
Approval Number: 2528	

SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? \(\square\) YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

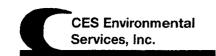
(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.					
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.					
		um: 0.2 mg/L					
		Chromium: 8.9 mg/L Copper: 4.9 mg/L					
Nickel: 37.5 mg/L							
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.					
		Metals Subcategory					
		Oils Subcategory					
		Organics Subcategory					

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	- \$50 pound Recycling - Box cleaning et 250 - \$69 hr. + F.S.C. for transp. to reycle - Vac. box Restal e#45/Bx
	- # 50 pound Recycling - Box cleaning et 250 - # 69 hr. + F.S.C. for transp. to reycle - Vac. box Restal et 45/Bx
	- Box Drop / Box Return e #150 + F.S.C.
2.	Contamination Limits (maximum limit before surcharges apply):
	NIA-
3.	Surcharge Pricing:
	NIA
	I .
4.	Special Testing Requirements:
	This is a recycloble fuel/water/solids mixture. We
	must recover as much fiel as possible. Cannot receive
	if we cannot cositinately reclaim finel DIA process
	described in number 5 below
5.	Treatment and Handling Protocol:
	- Vacuum off all fuel and mate mixtures, separate firel and
	then blend with Light ends
	- Mix/shear Remain meterial with water and detergent to extract all finel (Repeat this process on needed until fuel Recovery is complete
	- Break wate (fine) emulsion and Recover finel to mix with light ends - Test Bolids Left for Benzere and dispose or religible appropriately
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



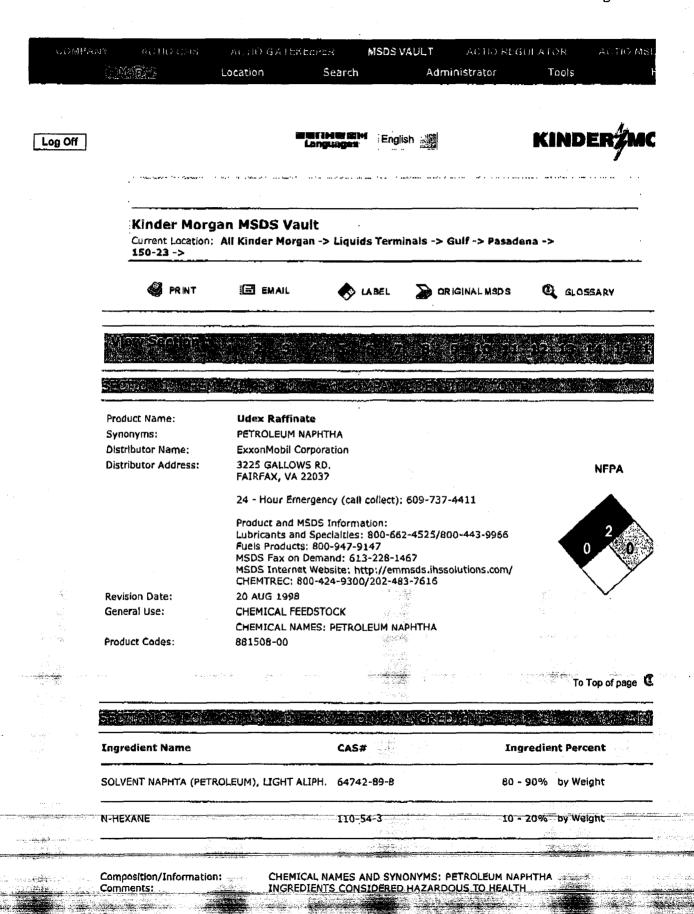
PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Chlor- D- Tect on Light End Fuels Recovered

8. Management for Product Recovered/Recycled (if applicable);

Blend with Light ends



See Section 8 for exposure limits (if applicable).

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Emergency Overview:

EMERGENCY RESPONSE DATA: Flammable.

Vapor accumulation could flash and/or explode if ignited.

DOT ERG No.: 128

Physical State:

Clear Liquid.

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

N-HEXANE:

Potential Health Effects:

Overexposure to n-hexane may cause effects on the peripheral nerves, resulting in weakness or numbness of lower limbs. Prolonged overexposure may result in damage to the central nervous system. Narcotic effects occur at levels above the TLV. Respiratory Irritation, dizziness, nausea, loss of consciousness. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in

possible irritation and dermatitis.

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Eve Contact:

Flush thoroughly with water. If irritation occurs, call a physician.

Skin Contact:

Wash contact areas with soap and water. Remove contaminated clothing.

Launder contaminated clothing before reuse.

Inhalation:

Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician

If breathing has stopped, use mouth to mouth resuscitation.

Ingestion:

Note to Physicians:

Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance. Material if aspirated into the lungs may cause chemical pneumonitis. Treat

appropriately.

To Top of page (2)



Fire:

FLAMMABILITY: Not Established

AUTO FLAMMABILITY deg C (deg F): Not Established

EXPLOSIVE PROPERTIES: Not Applicable

Explosion: Flash Point:

> -6 dag C (21 deg F)

Flash Point Method:

ASTM D-92.

Upper Flammable or Explosive

8.0%

Limit:

Lower Flammable or Explosive

Allowing to the second second

0.6%

Limit:

Extinguishing Media:

Carbon dioxide, foam, dry chemical and water fog.

Fire Fighting Instructions:

Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Preven runoff from fire control or dilution from entering streams, sewers, or drinking

water supply.

Protective Equipment:

For fires in enclosed areas, fire fighters must use self-contained breathing

Health: 0 Flammability: 2 Reactivity: 0

Other:

http://www.actiocms.com/msdsvaultx LANGUAGE/searchdetail.cfm?MSDS ID=201878... 2/27/2008

Unusual Fire Hazards: Hazardous Decomposition Flammable. Vapor accumulation could flash and/or explode if ignited.

Byproducts:

Carbon monoxide.

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Personal Precautions:

See Section 8

Environmental Precautions:

Prevent spills from entering storm sewers or drains and contact with soil.

Large Spill:

Contain material and pump back to holding tank for later disposal. Eliminate all

ignition sources. Remove leaking containers to detached area.

NOTIFICATION PROCEDURES:

Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including Intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CMEMTREC (800) 424-

9300.

To Top of page (C)

Handling:

Use in well ventilated area away from all ignition sources. Avoid sparking

conditions. Ground and bond all transfer equipment.

Storage:

Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Outside or detached storage preferred. Storage containers should be grounded and bonded. Store in a cool

area away from all ignition sources.

To Top of page (2)

Ventilation System:

Use in well ventilated area with local exhaust ventilation. Ventilation required

and equipment must be explosion proof. Use away from all Ignition sources.

Skin Protection Description:

Impervious aloves should be worn.

Eye/Face Protection:

If splash with liquid is possible, chemical type goggles should be worn.

Respiratory Protection:

Approved respiratory equipment must be used when airborne concentrations are

unknown or exceed the TLV.

Exposure Limits:

Other Isomers:

OSHA TWA: 500 ppm; 1800 mg/m3 OSHA STEL: 1000 ppm; 3600 mg/m3 ACGIH TWA: 500 ppm; 1760 mg/m3 ACGIH STEL: 1000 ppm; 3500 mg/m3

NOTE: Limits shown for guidance only. Follow applicable regulations.

Ingredient Guidelines

Ingredient: N-HEXANE

Guideline Type:

OSHA PEL-TWA

Guideline Information:

50 ppm; 180 mg/m3

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

Skin: 50 ppm; 176 mg/m3

Ingredient: SOLVENT NAPHTA (PETROLEUM), LIGHT ALIPH.

Guideline Type:

ACGIH TLV-TWA

Guideline Information: 100 ppm; 525 mg/m3

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Physical State/Appearance:

http://www.actiocms.com/msdsvaultx_LANGUAGE/searchdetail.cfm?MSDS_ID=201878... 2/27/2008

Color:

Clear

Odor:

Mild

pH:

Not Applicable

Vapor Pressure:

5.0 mmHg 20 deg C

Vapor Density:

Not Established

Flash Point:

> -6 deg C (21 deg f)

Flash Point Method:

ASTM D-92

Boiling Point: Freezing Point: Melting Point:

> 59 deg C (139 deg F) Deg C (deg F): Not Established Deg C (deg F): Not Applicable

Solubility:

IN WATER: Slight

Density:

RELATIVE DENSITY, 15/4 deg C: 0.683

Evaporation Point: Volatile Organic Compound Not Established

Content:

Not Established

Viscosity:

AT 40 deg C, cSt: 0.5

AT 100 deg C, cSt: Not Applicable Deg C (deg f): Not Established

Pour Point:

Odor Threshold:

(ppm): Not Established

Coefficient of Water/Oil Distribution:

PARTITION COEFFICIENT: Not Established

FLAMMABILITY: Not Established

AUTO FLAMMABILITY deg C (deg F): Not Established

EXPLOSIVE PROPERTIES: Not Applicable OXIDIZING PROPERTIES: Not Applicable

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING

REPRESENTATIVE

Typical physical properties are given above. Consult Product Data Sheet for

specific details.

To Top of page 🕒

Chemical Stability:

(THERMAL, LIGHT, ETC.): Stable.

Conditions to Avoid:

Heat, sparks, flame and build up of static electricity.

Incompatibilities with Other

(MATERIALS TO AVOID): Strong oxidizers.

Materials:

100

3244 FE

The state of the s

teres a company transfer to

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition

Products:

Carbon monoxide.

To Top of page 🖸

Andrew Professional

Applies to all ingredients:

Skin Effects:

ACUTE TOXICOLOGY:

DERMAL TOXICITY (RABBITS): LD50: > 5 g/kg 0/12 Fatalities at this dosage

level. Practically non-toxic.

Ingestion Effects:

ACUTE TOXICOLOGY:

ORAL TOXICITY (RATS): LD50: > 15 g/kg Practically non-toxic.

Inhalation Effects:

ACUTE TOXICOLOGY: INHALATION TOXICITY (RATS): Practically non-toxic (LC50:-greater-than 5

mg/l)

Based on testing of similar products and/or the components.....

Chronic Effects:

(SUMMARY): Prolonged repeated skin contact with low viscosine materials may

http://www.actiocms.com/msdsvaultx_LANGUAGE/searchdetail.cfm?MSDS_ID=201878... 2/27/2008

defat the skin resulting in possible irritation and dermatitis.

Irritation: EYE IRRITATION (RABBITS):

Practically non-irritating. Eye irritation scores: 4.0 at 1 hour, 4.0 at 24 hours

SKIN IRRITATION (RABBITS):

Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less tha

3).

Based on testing of similar products and/or the components.

Other Toxicological Information: GENETIC TOXICOLOGY (SUMMARY):

***Negative Ames Test. ***Mouse Lymphoma (L5178Y/TK) Assay: Negative.

N-HEXANE :

Neuro Toxicity: (SUMMARY): This material contains n-hexane which has been reported to cause

peripheral neuropathy. Acute exposures to hexane produces eye, skin and respiratory irritation. In larger doses, CNS depression with symptoms such as dizziness, numbness of extremities and difficulty in walking have been reported.

To Top of page Q

Ecotoxicity: Not established.

Bioaccumulation: BIOACCUMULATIVE POTENTIAL: Not established. Biodegradation: PERSISTENCE AND DEGRADABILITY: Not established.

MOBILITY; Not established.

To Top of page (Q

Waste Disposal: Mix with a compatible chemical which is less combustible and incinerate in

compliance with applicable laws and regulations.

RCRA Hazard Class: RCRA INFORMATION: Disposal of unused product may be subject to RCRA

regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the

Toxicity Characteristic Leaching Procedure (TCLP).

FLASM: > -6 deg C (21 deg F)

To Top of page 🚨

STCC: Not Established DOT Shipping Information:

DANGEROUS WHEN WET: No

POISON: No

PLACARD(s): Flammable

MARPOL III STATUS: Not Applicable

DOT Shipping Name: flammable Liquids, n.o.s. (contains N-HEXANE)

DOT Hazard Class: CLA55 & DIV: 3

UN1993 **DOT Identification Number:**

DOT Packing Group: PG II

DOT Subpart E Labeling

Requirement:

-1.417

IMO: LABEL(s): Flammable Liquid MARPOL III STATUS: Not Applicable

IMO Shipping Name: Flammable Liquids, n.o.s. (contains N-MEXANE)

Flammable Liquid

IMO Hazard Class: CLASS & DIV: 3

IMO UN Number: 1993

IMO Packing Group: PG II

SUBSIDIARY:RISK: Not Applicable -

LABEL(s): Flammable Liquid

Flammable Liquids, n.o.s. (contains N-HEXANE) IATA Shipping Name:

IATA Hazard Class:

CLASS & DIV: 3

IATA UN Number:

ID/UN Number: 1993

DOT ERG No.: 128

IATA Packing Group:

PG II

Reportable Quantity:

PRODUCT: 769 lbs (based on RQ for N-HEXANE)

NAERG Number:

ICAO:

HAZARD CLASS & DIV: 3 ID/UN Number: 1993

PACKING GROUP: PG II

SHIPPING NAME: Flammable Liquids, n.o.s. (contains N-HEXANE)

SUBSIDIARY RISK: Not Applicable LABEL(s): Flammable Liquid

To Top of page



Applies to All Ingredients:

TSCA 8(b): Inventory Status:

Governmental Inventory Status: All components comply with TSCA.

SARA:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

Section 312 Hazard Category:

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

Chronic:

Section 302:

Yes Yes

fire:

SOLVENT NAPHTA (PETROLEUM), LIGHT ALIPH. :

Regulatory Paragraph:

The following product ingredients are cited on the lists below: CHEMICAL NAME: LIGHT ALIPHATIC PETROLEUM SOLVENT

CAS NUMBER: 64742-89-8

LIST CITATIONS: 1, 18, 19, 20, 21, 23, 25

N-HEXANE :

Section 313 Toxic Release Form:

This product contains the following SARA (313) Toxic Release Chemicals:

ale offerendent in the

CHEMICAL NAME: N-HEXANE CAS NUMBER: 110-54-3

CONC.: 13%

Regulatory Paragraph:

The following product ingredients are cited on the lists below:

CHEMICAL NAME: N-HEXANE CAS NUMBER: 110-54-3

LIST CITATIONS: 1, 10, 18, 19, 20, 21, 23, 24, 25, 26

REGULATORY LISTS SEARCHED:

1 = ACGIH ALL 2 = ACGIH A1 3 = ACGIH A2 4 = NTP CARC 5 = NTP SUS 6 = IARC 1 7 = IARC 2A 8 = IARC 2B

9 = OSHA CARC 10 = OSHA Z 11 = TSCA 4 12 = TSCA 5a2 13 = TSCA 5e 14 = TSCA 6

15 = TSCA 12b 16 = CA P65 CARC 17 = CA P65 REPRO 18 = CA RYK 19 = FL RTK

19 = FL RTK 20 = IL RTK 21 = LA RTK 22 = MI 293 23 = MN RTK 24 = NJ RTK

25 = PA RTK 26 = RI RTK

Code key: CARC = Carcinogen

http://www.actiocms.com/msdsvaultx_LANGUAGE/searchdetail.cfm?MSDS_ID=201878..._2/27/200

SUS. = Suspected Carcinogen REPRO = Reproductive

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NFPA:

Health:

0

Fire Hazard:

2

Security for the second of the second of the second of the second of the second of the second of the second of

Reactivity: Label Hazard Warning:

FLAMMABLE LIQUID AND VAPOR. HEXANE MAY CAUSE EFFECTS ON PERIPHERAL NERVES AND DAMAGE TO THE CENTRAL NERVOUS SYSTEM. MAY CAUSE NOSE,

THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

PROLONGED, REPEATED SKIN CONTACT MAY CAUSE IRRITATION. Keep away from heat, sparks, and flame. Avoid breathing vapor. Avoid contact with skin.

Keep container closed. Use with adequate ventilation.

Label Precautions:

Precautionary Label Text:

CONTAINS N-HEXANE, LIGHT ALIPHATIC PETROLEUM SOLVENT

Empty container may contain product residue, including flammable or explosive

vapors. Do not cut, puncture, or weld on or near container.

All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

Refer to product Material Safety Data Bulletin for further safety and health

information.

USE: CHEMICAL FEEDSTOCK

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED

COMPANIES ARE NOT FORMULATED TO CONTAIN PCB5.

INGREDIENT DESCRIPTION: LIGHT ALIPHATIC PETROLEUM SOLVENT

PERCENT: 80-90

CAS NUMBER: 64742-89-8

INGREDIENT DESCRIPTION: N-HEXANE

PERCENT: 10-20 CAS NUMBER: 110-54-3

For Internal Use Only: MHC: 0 0 1* 0 1*, MPPEC: CVF, TRN: 881508-00,

CMCS97: 97G735, REQ: US - MARKETING, SAFE USE: SEHS

Lahel First Ald:

11

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physicia immediately. In case of contact, wash skin with soap and water. Remove contaminated clothing. Call a physician if irritation persists. Wash or dispose of contaminated clothing. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician. For industrial use only. Not intended or suitable for use in or around a household or

dwelling.

MSDS Revision Date:

20 AUG 1998

Disclaimer:

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Certificate of Analysis

(Page 1 of 2)

Client: VALERO (VALERO)

Report No: 114226

Product: Raffinate

SGS File No: 960769

Client Ref: M-348546

LIMS No: 114226 - 337926

Lab No: P6227135915

Sample Description: Composite sample + RVP. After transfer Sampled at

P6227135915

Kinder Morgan Pasadena. Sampled by SGS. Received by Shipping/Receiving. Contained in brown glass quart

bottle.

Sample Label: S/T 150-23 AFTER TRANSFER FROM FMT 3038/3110

Tested On: 12/29/2007

,		· -	
METHOD	TEST	RESULT	
ASTM D 287	API Gravity @ 60°F	72.1	۵
ASTM D 156	Color Saybolt	+20	
ASTM D 86	Distillation, °F, %Recovered, @760 mm Hg		
•	IBP	144.7	°F
	5%	155.1	°F
	10%	157.3	°F
	20%	159.8	°F
	30%	162.3	٥F
	40%	164.7	°F
	50%	168.1	٥È
	60%	172.2	°F
	70%	178.0	°F
	80%	186.8	°F
	90%	201.9	°F
	95%	221.2	°F
	END	276.3	°F
	Recovery	98.8	%
	Residue	0.7	%
	Loss	0.5	%
ASTM D 3606 MO	Benzene	0.30	Vol-%
ASTM D 2622	Sulfur by X-ray	12	ppm
ASTM D 2700a	Motor Octane Number	66.0	
ASTM D 2699a	Research Octane Number	67.0	
GC	Oxygenates, by GC, Low Ox method		
	Dimethyl Ether	<1	ppm
	Acetaldehyde	<1	ppm
	Methanol	<1	ppm
	Ethanol	<1	ppm
	Propyl Ether	<1	ppm
	Propionaldehyde	<1	ppm

Precision parameters upply in the determination of above tent results. Also refer to ASTM D 3244-97/02, IP 367/96 and appendix E of IP standard methods for analysis and testing for utilization of est data to determine conformance with specifications.

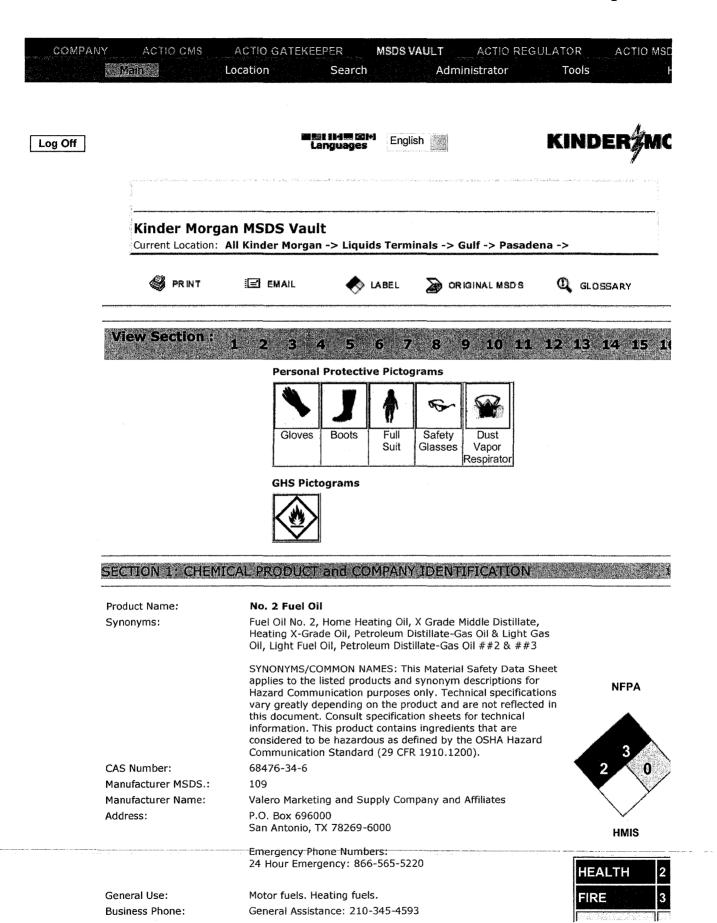
Date printed: 29-Dec-2007

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Oil, Gas & Chemicals Services 1201 W 8th Street Deer Park TX 77536 TEL: (281) 479-7170 FAX: (281) 479-2734

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CHEMTREC Numbers:

For emergencies in the US, call CHEMTREC: 800-424-9300

Revision Date:

3/13/2006

Version: 1.01

Trade Names:

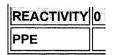
No. 2 Fuel Oil

Common name:

No. 2 Fuel Oil

BRAND NAMES: Valero, Diamond Shamrock, Shamrock,

Ultramar, Beacon, Total



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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS			
Ingredient Name	CAS#	Ingredient Percent	
Distillates, petroleum residues vacuum	68955-27-1	Concentration: 0-100%	
Hexane (Other Isomers)	Mixture	Concentration: 0-3%	
Naphthalene	91-20-3	Concentration: 0-3%	
n-Nonane	111-84-2	Concentration: 0-3%	
n-Heptane	142-82-5	Concentration: 0-2%	
n-Hexane	110-54-3	Concentration: 0-2%	
Octane (All Isomers)	111-65-9	Concentration: 0-1%	
Cyclohexane	110-82-7	Concentration: 0-1%	
Ethylbenzene	100-41-4	Concentration: 0-1%	
Hydrogen Sulfide	7783-06-4	Concentration: 0-1%	
Toluene	108-88-3	Concentration: 0-1%	
(ylene (o,m,p isomers)	1330-20-7	Concentration: 0-1%	
Benzene	71-43-2	Concentration: 0-0.5%	

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SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview:

DANGER!

MAY BE FATAL IF INHALED.

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CANCER HAZARD.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER, PERIPHERAL NERVOUS SYSTEM, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

Do not ingest. Do not get in eyes or on skin or clothing. Avoid breathing vapor o mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.

Physical State:

Liquid. (May be dyed red.)

Physical Health Hazard:

Danger! Diesel Exhaust has been Reported to be an Occupational hazard due to

NIOSH-reported potential carcinogenic properties.

May cause irritation to eyes, skin and respiratory system. Avoid liquid, mist and vapor contact. Harmful or fatal if swallowed. Aspiration hazard, can enter lungs and cause damage. May cause irritation or be harmful if inhaled or absorbed through the skin. Contains polycyclic aromatic compounds which have been shown to cause anemia, disorders of the liver, bone marrow and lymphoid tissues in rats following dermal application. Combustible Liquid. Vapors may explode. If this material is handled as a refinery intermediate stream versus sold as a finished product, the following additional health hazard warning information may be pertinent.

Danger! Untreated Product May Contain or Release Hydrogen Sulfide - a highly toxic flammable gas which can be fatal if inhaled at certain concentrations.

Applies to All Ingredients:

Route of Exposure:

Potential Health Effects:

Dermal contact. Eye contact. Inhalation. Ingestion.

Eye Contact:

Acute: Corrosive to eyes. May cause severe irritation, redness, tearing, blurred

vision and conjunctivitis.

Skin Contact:

Acute: Prolonged or repeated contact may cause moderate irritation, defatting (cracking), redness, itching, inflammation, dermatitis and possible secondary infection. High pressure skin injections are SERIOUS MEDICAL EMERGENCIES. Injury may not appear serious at first. Within a few hours, tissues will become

swollen, discolored and extremely painful.

Inhalation:

Acute: Nasal and respiratory tract irritation, central nervous system effects including excitation, euphoria, contracted eye pupils, dizziness, drowsiness, blurred vision, fatigue, nausea, headache, loss of reflexes, tremors, convulsions, seizures, loss of consciousness, coma, respiratory arrest and sudden death could occur as a result of long term and/or high concentration exposure to vapors. Ma also cause anemia and irregular heart rhythm. Repeated or prolonged exposure may cause behavioral changes. NIOSH Current Intelligence Bulletin 50 reports a potential occupational carcinogenic hazard exists due to human exposure to

diesel exhaust.

Ingestion:

Acute: Toxic if swallowed. May cause burns to mouth, throat and stomach. This product may be harmful or fatal if swallowed. This product may cause nausea, vomiting, diarrhea and restlessness. DO NOT INDUCE VOMITING. Aspiration into

the lungs can cause severe chemical pneumonitis or pulmonary

edema/hemorrhage, which can be fatal. May cause gastrointestinal disturbances Symptoms may include irritation, depression, vomiting and diarrhea. May cause harmful central nervous system effects, similar to those listed under "inhalation'

Target Organs:

Contains material which causes damage to the following organs: blood, kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous

system (CNS), eye, lens or cornea.

Signs/Symptoms:

Nasal and respiratory tract irritation, central nervous system effects including excitation, euphoria, contracted eye pupils, dizziness, drowsiness, blurred vision fatigue, nausea, headache, loss of reflexes, tremors, convulsions, seizures, loss of consciousness, coma, respiratory arrest or sudden death could occur as a result of long term and/or high concentration exposure to vapors. May also

cause anemia and irregular heart rhythm.

Aggravation of Pre-Existing

Conditions:

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human

See toxicological information (section 11)

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SECTION 4: FIRST AID MEASURES

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Seek medical

advice if pain or redness continues.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. Wash exposed area thoroughly with soap and water. Remove contaminated clothing promptly and launder before reuse. Contaminated leather goods should be discarded. If irritation persists or symptoms described in the MSDS develop, seek medical attention. High pressure skin injections are SERIOUS MEDICAL EMERGENCIES. Get

immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Get medical attention.

Ingestion: This product may be harmful or fatal if swallowed. This product may cause

nausea, vomiting, diarrhea and restlessness. DO NOT INDUCE VOMITING. Aspiration into the lungs can cause severe chemical pneumonitis or pulmonary edema/hemorrhage, which can be fatal. May cause gastrointestinal disturbances Symptoms may include irritation, depression, vomiting and diarrhea. May cause harmful central nervous system effects, similar to those listed under "inhalation"

Note to Physicians: In case of ingestion, gastric lavage with activated charcoal can be used promptly

to prevent absorption. Consideration should be given to the use of an intratracheal tube, to prevent aspiration. Irregular heart beat may occur, use of adrenalin is not advisable. Individuals intoxicated by the product should be hospitalized immediately, with acute and continuing attention to neurological an cardiopulmonary function. Positive pressure ventilation may be necessary. After the initial episode, individuals should be monitored for changes in blood variable and the delayed appearance of pulmonary edema and chemical pneumonitis. Such patients should be monitored for several days or weeks for delayed effects including bone marrow toxicity, hepatic and renal impairment. Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated. In case of skin injection, prompt

debridement of the wound is necessary to minimize necrosis and tissue loss.



SECTION 5 : FIRE FIGHTING MEASURES

Fire: Flammability of the product: FLAMMABLE.

Fire hazards in the presence of various substances:

32.2 to 121.2 deg C (90 to 250.2 deg F).

Flammable in the presence of open flames, sparks and static discharge.

Special remarks on fire hazards: No additional remark.

Explosion: Explosion hazards in the presence of various substances:

Explosive in the presence of open flames, sparks and static discharge.

Special remarks on explosion hazards: No additional remark.

Flash Point Method: Closed cup

Upper Flammable or Explosive 8%

Lower Flammable or Explosive 0.4%

Limit:

Flash Point:

Auto Ignition Temperature: 257.2 deg C (495 deg F)

Extinguishing Media:

Flammable Liquid. Use dry chemical, foam or carbon dioxide to extinguish the fire. Consult foam manufacturer for appropriate media, application rates and water/foam ratio. Water can be used to cool fire-exposed containers, structures and to protect personnel. If a leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to sto a leak. Use water to flush spills away from sources of ignition. Do not flush down

Collect contaminated fire-fighting water separately. It must not enter the sewag

system. Dike area of fire to prevent runoff. Decontaminate emergency personne and equipment with soap and water.

Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Byproducts:

These products are carbon oxides (CO, CO2), nitrogen and sulfur oxides (NOx, Sox), particulate matter, VOC's.

Fire Fighting Instructions:

Flammable Liquid. Use dry chemical, foam or carbon dioxide to extinguish the fire. Consult foam manufacturer for appropriate media, application rates and water/foam ratio. Water can be used to cool fire-exposed containers, structures and to protect personnel. If a leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to sto a leak. Use water to flush spills away from sources of ignition. Do not flush down public sewers.

Collect contaminated fire-fighting water separately. It must not enter the sewag system. Dike area of fire to prevent runoff. Decontaminate emergency personne and equipment with soap and water.

Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Protective Equipment:

For fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Do not touch or walk through spilled material. Tanks, vessels or other confined spaces which have contained product should be freed of vapors before entering. The container should be checked to ensure a safe atmosphere before entry. Empty containers may contain toxic, flammable/combustible or explosive residues or vapors. Do not cut, grind, drill, weld or reuse empty containers that contained this product. Do not transfer this product to another container unless the container receiving the product is labeled with proper DOT shipping name, hazard class and other information that describes the product and its hazards.

Spill Cleanup Measures:

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Fire and Explosion Hazard Data before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and ho surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g., by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 800-424-8802. For highway or railway spills, contact Chemtrec at 800-424-

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SECTION 7: HANDLING and STORAGE

Handling:

Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed.

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> Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling. Use only in well ventilated locations. Keep away from heat, spark and flames. In case of fire use water spray, foam, dry chemical or carbon dioxide as described in the Fire and Explosion Hazard Data section of the MSDS. Do not pressurize, cut, weld, braze, solder, drill on or near this container. "Empty" container contains residue (liquid and/or vapor) and may explode in heat of a fire.

> Keep out of reach of children. Failure to use caution may cause serious injury or illness. Never siphon by mouth. For use as a motor fuel only. Do not use as a cleaning solvent or for other non-motor fuel uses. Wash thoroughly after handling. To prevent ingestion and exposure - Do not siphon by mouth to transfer product between containers. Use good personal hygiene practices. After handling this product, wash hands before eating, drinking, or using toilet facilities.

Storage:

Store in a segregated and approved area. Keep container in a cool, wellventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation

location

Personal Protective Equipment

Routine Handling:

Personal protection in case of a large spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before

handling this product.

Skin Protection Description:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Flame Retardant Clothing is recommended.

Hand Protection Description:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessmer

indicates this is necessary.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes,

Respiratory Protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards o the product and the safe working limits of the selected respirator.

Consult your supervisor or S.O.P. for special handling direction.

Other Protective: Exposure Limits:

Component: Hydrogen Sulfide

OSHA PEL Z2 (United States, 8/1997):

AMP: 50 ppm 10 minute/minutes. Form: All forms

Component: Toluene

OSHA PEL Z2 (United States, 6/2002):

AMP: 500 ppm 10 minute/minutes. Form: All forms

Consult local authorities for acceptable exposure limits.

Ingredient Guidelines

Ingredient: Benzene

Guideline Type: ACGIH TLV-TWA

(United States, 5/2004): 0.5 ppm 8 hour/hours. Form: All forms. Skin-Guideline Information:

Guideline Type: **OSHA PEL-STEL**

(United States, 6/1993): 5 ppm 15 minute/minutes. Form: All forms Guideline Information:

Guideline Type: NIOSH REL-TWA

Guideline Information: (United States, 6/2001): 0.1 ppm 10 hour/hours: Form: All forms. Notes: See Appendix A - NIOSH Potential Occupational Carcinogen

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): 1 ppm 15 minute/minutes. Form: All forms. Notes: Se

Appendix A - NIOSH Potential Occupational Carcinogen

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 5/2004): 2.5 ppm 15 minute/minutes. Form: All forms. Skin

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 1 ppm 8 hour/hours. Form: All forms

Ingredient: Cyclohexane

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 300 ppm 8 hour/hours. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 1/2004): 100 ppm 8 hour/hours. Form: All forms

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 300 ppm 10 hour/hours. Form: All forms

Ingredient: Ethylbenzene

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 1/2004): 125 ppm 15 minute/minutes. Form: All forms

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 100 ppm 10 hour/hours. Form: All forms

Guideline Type:

ACGIH TI V-TWA

Guideline Information:

(United States, 1/2004): 100 ppm 8 hour/hours. Form: All forms

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): 125 ppm 15 minute/minutes. Form: All forms

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 100 ppm 8 hour/hours. Form: All forms

Ingredient: Hexane (Other Isomers)

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): CEIL: 510 ppm 15 minute/minutes. Form: All forms

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 9/2004): 1000 ppm 15 minute/minutes. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 9/2004): 500 ppm 8 hour/hours. Form: All forms

Ingredient: Hydrogen Sulfide

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 9/2004): 15 ppm 15 minute/minutes. Form: All forms

Guideline Type:

OSHA PEL-STEL

Guideline Information:

Z2 (United States, 8/1997): CEIL: 20 ppm Form: All forms

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 12/2001): CEIL: 10 ppm 10 minute/minutes. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 9/2004): 10 ppm 8 hour/hours. Form: All forms

Ingredient: <u>n-Heptane</u>

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 9/2004): 500 ppm 15 minute/minutes. Form: All forms

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 350 mg/m3 10 hour/hours. Form: All forms

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 500 ppm 8 hour/hours. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 9/2004): 400 ppm 8 hour/hours. Form: All forms

Ingredient: n-Hexane

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 9/2004): 50 ppm 8 hour/hours. Form: All forms. Skin

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 50 ppm 10 hour/hours. Form: All forms

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993); 500 ppm 8 hour/hours, Form: All forms

Ingredient: n-Nonane

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 9/2004): 200 ppm 8 hour/hours. Form: All forms

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 200 ppm 10 hour/hours, Form; All forms

Ingredient: Naphthalene

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 10 ppm 10 hour/hours. Form: All forms

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 10 ppm 8 hour/hours. Form: All forms

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 5/2004): 15 ppm 15 minute/minutes. Form: All forms. Notes:

1996 Adoption Refers to Appendix A -- Carcinogens.

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 5/2004): 10 ppm 8 hour/hours. Form: All forms. Notes: 1996

Adoption Refers to Appendix A -- Carcinogens.

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): 15 ppm 15 minute/minutes. Form: All forms

Ingredient: Octane (All Isomers)

Guideline Type:

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 500 ppm 8 hour/hours. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 3/2004): 300 ppm 8 hour/hours. Form: All forms. Notes: 1999

Adoption.

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 75 ppm 10 hour/hours. Form: All forms

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): CEIL: 385 ppm 15 minute/minutes. Form: All forms

Ingredient: Toluene

Guideline Type:

NIOSH REL-TWA

Guideline Information:

(United States, 6/2001): 100 ppm 10 hour/hours. Form: All forms

Guideline Type:

OSHA PEL-STEL

Guideline Information:

Z2 (United States, 6/2002): CEIL: 300 ppm Form: All forms

Guideline Type:

OSHA PEL-TWA

Guideline Information:

Z2 (United States, 6/2002): 200 ppm 8 hour/hours. Form: All forms

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 5/2004). 50 ppm 8 hour/hours. Form: All forms. Skin Notes:

1996 Adoption Refers to Appendix A -- Carcinogens.

Guideline Type:

NIOSH REL-STEL

Guideline Information:

(United States, 6/2001): 150 ppm 15 minute/minutes. Form: All forms

Ingredient: Xylene (o,m,p isomers)

Guideline Type:

ACGIH TLV-TWA

Guideline Information:

(United States, 5/2004): 100 ppm 8 hour/hours. Form: All forms

Guideline Type:

Guideline Type:

ACGIH TLV-STEL

Guideline Information:

(United States, 5/2004): 150 ppm 15 minute/minutes. Form: All forms

OSHA PEL-TWA

Guideline Information:

(United States, 6/1993): 100 ppm 8 hour/hours. Form: All forms

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SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

http://www.actiocms.com/msdsvaultx LANGUAGE/searchdetail.cfm?MSDS_ID=602607... 2/29/2008

Color:

Clear, Straw, Black, Brown, Green,

Odor:

Kerosene (Strong.)

Physical State:

Liquid. (May be dyed red.)

Vapor Pressure:

< 0.7 kPa (< 5.2 mm Hg) (at 20 deg C)

Vapor Density:

(Air = 1): 3 to 7

Boiling Point:

93.3 to 482.3 deg C (199.9 to 900.1 deg F)

Freezing Point:

May start to solidify at -51.15 deg C (-60.1 deg F) based on data for: n-Nonane.

Weighted average: -99.54 deg C (-147.2 deg F)

Melting Point:

May start to solidify at ~51.15 deg C (-60.1 deg F) based on data for: n-Nonane.

Weighted average: -99.54 deg C (-147.2 deg F)

Specific Gravity:

(Water = 1): 0.84 to 0.93 (@ 60 deg F)

Percent Volatile:

Negligible

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SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

The product is stable.

Incompatibilities with Other

Reactive with oxidizing agents, acids, alkalis.

Materials:

Products:

Reactivity:

The product is stable.

Hazardous Polymerization:

Will not occur

Hazardous Decomposition

These products are carbon oxides (CO, CO2), nitrogen and sulfur oxides (NOX,

SOX), particulate matter, VOC's.

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SECTION 11: TOXICOLOGICAL INFORMATION

Applies to all ingredients:

Acute Health Effects:

DIESEL EXHAUST FUMES have been reported to be a potential occupational carcinogen in humans by NIOSH Current Intelligence Bulletin 50.

MIDDLE DISTILLATE FUELS have been demonstrated to cause chromosome damage in the in vivo rat bone marrow cytogenetics assay, and mutagenic in the L5178Y mouse lymphoma assay. Repeated dermal application of high levels of middle distillate fuels in experimental animals has produced extremely severe irritation on the skin. Varying degrees of liver and kidney damage were noted in these studies, including congestion, enlargement, mottling, and multifocal

PETROLEUM DISTILLATES (naphtha, C6H14, C6H16, C8H18 aliphatics) can affec the body if they are inhaled, come in contact with the eyes or skin, or are swallowed. The vapors of petroleum distillates are mild narcotics and mucous membrane irritants. There have been few toxicologic studies, either on animals or man. While 4,000 to 7,000 ppm are tolerated for 1 hour by human subjects, symptoms of narcosis, such as dizziness and drowsiness, occur at these concentrations. Continuing exposure may produce signs of inebriation, followed by headache or nausea. Exposure at 10,000 to 20,000 ppm is regarded as immediately hazardous to life. The higher boiling fractions may produce irritation of the eyes, nose, and throat in addition to symptoms of mild narcosis. No chronic systemic effects have been reported from widespread industrial use. If benzene is present in the distillate; however, the hazard of both acute and chronic poisoning is increased.

Lifetime skin painting studies conducted by the American Petroleum Institute, Exxon, and others have shown that similar products boiling between 175-370 deg C (350-700 deg F) usually produce skin tumors and/or skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined.

Limited studies on oils that are very active carcinogens have shown that washing the animals' skin with soap and water between applications greatly reduces tumor formation. These studies demonstrate the effectiveness of cleansing the

skin after contact.

Chronic Effects:

On humans: Contains material which causes damage to the following organs: blood, kidneys, liver, peripheral nervous system, upper respiratory tract, skin,

central nervous system (CNS), eye, lens or cornea.

Special remarks on chronic effects on humans:

No additional remark

Carcinogenicity:

Contains material which may cause cancer. Risk of cancer depends on duration

and level of exposure.

Other Toxicological Information:

Other toxic effects on humans:

Very hazardous in case of eye contact (corrosive).

Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung

irritant).

Special remarks on toxicity to animals:

No additional remark.

Special remarks on other toxic effects on humans:

No additional remark.

Target organs: Contains material which causes damage to the following organs: blood, kidneys, liver, peripheral nervous system, upper respiratory tract, skin,

central nervous system (CNS), eye, lens or cornea.

<u>Distillates</u>, <u>petroleum residues vacuum</u>:

Carcinogenicity:

Classified 2 (Suspected for humans.) by European Union [Distillates, petroleum residuos vacuum]

Hexane (Other Isomers):

Acute Health Effects:

HEXANE ISOMERS are three times as toxic to mice as is pentane. Narcosis was produced in mice within 30-60 minutes at concentrations of 30,000 ppm. In man, concentrations for 10 minutes at 2000 ppm produced no effects, but 5000 ppm caused dizziness and a sense of giddiness. Concentrations of 1400-1500 ppm produced slight nausea, headache, eye, and throat irritation.

Naphthalene:

Acute Health Effects:

NAPHTHALENE can affect the body if it is inhaled, comes into contact with the eyes or the skin or if it is swallowed. Naphthalene vapor causes hemolysis and eye irritation, and may cause cataracts. Severe intoxication from ingestion of the solid results in characteristic manifestations of marked intravascular hemolysis and its consequences, including potentially fatal hyperkalemia. Initial symptoms include eye irritation, headache, confusion, excitement, malaise, profuse sweating, nausea, vomiting, abdominal pain, and irritation of the bladder. There may be progression to jaundice, hematuria, hemoglobinuria, renal tubular blockage, and acute renal shutdown. Hematologic features include red cell fragmentation, icterus, severe anemia with nucleated red cells, leukocytosis, and dramatic decreases in hemoglobin, hematocrit and red cell count; sometimes there is formation of Heinz bodies and methemoglobin. Individuals with a deficiency of glucose-6-phosphate dehydrogenase in erythrocytes may be more susceptible to hemolysis by naphthalene. Cataracts and ocular irritation have been produced experimentally in animals and have been described in humans. C 21 workers exposed to high concentrations of fume or vapor for 5 years, 8 had peripheral lens opacities; in other studies, no abnormalities of the eyes have been detected in workers exposed to naphthalene for several years. The vapor causes eye irritation at 15 ppm. Eye contact with the solid may result in conjunctivitis, superficial injury to the cornea, chorioretinitis, scotoma, and diminished visual acuity. Naphthalene on the skin may cause hypersensitivity dermatitis, chronic dermatitis is rare.

Skin Effects:

LD50 Dermal Rat: > 2500 mg/kg

Ingestion Effects:

LD50 Oral Rat: 490 mg/kg LD50 Oral Mouse: 316 mg/kg LD50 Oral Guinea pig: 1200 mg/kg LDLo Oral Child: 100 mg/kg LDLo Oral Dog: 400 mg/kg

Carcinogenicity:

Classified 2B (Possible for humans.) by IARC [Naphthalene]. Classified A4 (Not

classifiable for humans or animals.) by ACGIH [Naphthalene].

n-Nonane:

Acute Health Effects:

NONANE causes a four hour LC50 in rats at concentrations of 3200 ppm, or at about the same level as VM&P Naphtha. This level is markedly lower than the lethal concentrations reported in earlier mice studies involving octane (13,500 ppm) and heptane (16,000 ppm), supporting the lower limit for nonane.

n-Heptane:

Acute Health Effects:

HEPTANE can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed. Heptane vapor is a narcotic. Concentrations of 10,000 to 15,000 ppm produced narcosis in mice within 30 to 60 minutes, while 15,000 to 20,000 ppm caused convulsions and death. At 48,000 ppm, respiratory arrest was produced in mice in 3 to 4 minutes from the start of exposure. Human subjects exposed to 1,000 ppm for 6 minutes, or to 2,000 ppm for 4 minutes. reported slight vertigo. At 5,000 ppm for 4 minutes, there was marked vertigo, inability to walk a straight line, hilarity, and incoordination, but no complaints of eye and upper respiratory tract or mucous membrane irritation. A 15-minute exposure at 5,000 ppm produced in some subjects a state of stupor lasting for 30 minutes after exposure. These subjects also reported loss of appetite, slight nausea, and a taste resembling gasoline for several hours after exposure. Although chronic nervous system affects have not been attributed to heptane. polyneuritis has been reported following prolonged exposure to a petroleum fraction with boiling range between 70 deg C and 100 deg C, and this fraction would normally contain various isomers of heptane as major ingredients.

n-Hexane:

Acute Health Effects:

HEXANE can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed. Hexane vapor is a narcotic and a mild upper respiratory irritant. Polyneuropathy (peripheral nerve damage) has been reported to occur i workers exposed to hexane vapors, characterized by progressive weakness and numbness in the extremities, loss of deep tendon reflexes and reduction of motor nerve conduction velocity. Recovery ranges from no recovery to complete recovery depending upon the duration of exposure and severity of nerve damage. Concentrations of 30,000 ppm produced narcosis in mice within 30 to 60 minutes, convulsions and death occurred at 35,000 to 40,000 ppm, and at 64,000 ppm respiratory arrest was produced in 2.5 to 4.5 minutes from the star of exposure. Concentrations up to 8000 ppm produced no anesthesia. In human subjects, 2000 ppm for 10 minutes produced no effects, but 5000 ppm resulted in dizziness and a sensation of giddiness. Other investigators reported slight nausea, headache and irritation of the eyes and throat at 1400 to 1500 ppm. In industrial practice, mild narcotic symptoms such as dizziness have been observed when concentrations exceeded 1000 ppm, but not below 500 ppm.

Octane (All Isomers):

Acute Health Effects:

OCTANE can affect the body if it is inhaled, comes in contact with the skin or eyes or is swallowed. Octane vapor is a mild narcotic and mucous membrane irritant. Concentrations of 6600 to 13,700 ppm produced narcosis in mice in 30 to 90 minutes, the fatal concentration for animals is near 13,500 ppm. No chronic systemic effects have been reported in humans.

Cyclohexane:

Ingestion Effects:

LD50 Oral Rat: 12705 mg/kg LD50 Oral Mouse: 813 mg/kg LDLo Oral Rabbit: 5500 mg/kg

Ethylbenzene:

Acute Health Effects:

ETHYLBENZENE can affect the body if it is inhaled, swallowed or comes in contact with the eyes or skin. It is primarily an irritant of skin, and to some degree, of eyes and upper respiratory tract. Systemic absorption causes depression of the central nervous system with narcosis at very high concentrations. On the eyes and nose, the vapor at 5000 ppm causes intolerable irritation, eye irritation and lacrimation are immediate and severe at 2000 ppm, irritation and tearing occur at 1000 ppm although tolerance develops rapidly, and the vapor is a transient irritant on human eyes at 200 ppm. Aspiration of small amounts causes extensive edema and hemorrhage of lung tissue. A draft report on a study conducted by the National Toxicology program states that lifetime inhalation exposure of rats and mice to concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations of ethlybenzene (75 ppm c 250 ppm). The draft report does not address the relevance of these results to humans.

Ingestion Effects:

LD50 Oral Rat: 3500 mg/kg

Carcinogenicity:

Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC

[Ethylbenzene].

Hydrogen Sulfide:

Acute Health Effects:

HYDROGEN SULFIDE can affect the body if it is inhaled or if it comes into contac with the eyes, skin, nose or throat. It can also affect the body if it is swallowed. It is colorless and has the odor of rotten eggs. However, its odor cannot be used as an indication of its presence since one of the first effects of H2S exposure is

the loss of the sense of smell. Inhalation of high concentrations of hydrogen sulfide, 1000 to 2000 ppm, may cause coma after a single breath and may be rapidly fatal, convulsions can also occur. Hydrogen sulfide gas is a rapidly acting systemic poison which causes respiratory paralysis with consequent asphyxia at high concentrations (500 to 1000 ppm). A case of polyneuritis and encephalopathy from one day's exposure to a concentration insufficient to cause loss of consciousness has been reported. It irritates the eyes and respiratory tract at lower concentrations (50 to 500 ppm). Pulmonary edema and bronchial pneumonia may follow prolonged exposure at concentrations exceeding 250 ppm. Exposure to concentrations of hydrogen sulfide around 50 ppm for one hour may produce rhinitis, pharyngitis, bronchitis, pneumonitis, acute conjunctivitis with pain, lacrimation and photophobia, in severe form this may progress to keratoconjunctivitis and vesiculation of the corneal epithelium. In lower concentrations, hydrogen sulfide may cause headache, fatigue, irritability, insomnia, and gastrointestinal disturbances, as well as central nervous system disturbances, causing excitation and dizziness. Repeated exposure to hydrogen sulfide results in increased susceptibility, so that eye irritation, cough and systemic effects may result from concentrations previously tolerated without any effect.

Toluene:

Ingestion Effects:

LD50 Oral Rat: 636 mg/kg LDLo Oral human: 50 mg/kg

Carcinogenicity:

Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not

classifiable for humans.) by IARC [Toluene].

Xylene (o,m,p isomers):

Skin Effects:

LD50 Dermal Rabbit: > 1700 mg/kg

Ingestion Effects:

LD50 Oral Rat: 4300 mg/kg LD50 Oral Mouse: 2119 mg/kg LD50 Oral Mammal: 4300 mg/kg LDLo Oral human: 50 mg/kg

Carcinogenicity:

Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not

classifiable for humans.) by IARC [Xylene (o,m,p isomers)].

Benzene:

Acute Health Effects:

BENZENE is considered to be a carcinogen to humans, and may cause adverse health effects following exposure via inhalation, ingestion or dermal or eye contact. Acute inhalation of benzene by rats, mice or rabbits caused narcosis, spontaneous heart contractions (ventricular fibrillation) and death due to respiratory paralysis. Subchronic inhalation of benzene by rats produced decreased white blood cell counts, decreased bone marrow cell activity, increased red blood cell activity and cataracts. In rats, chronic inhalation or oral administration of benzene produced cancers of the liver, mouth and Zymbal gland. Acute inhalation exposure of benzene in humans has caused nerve inflammation (polyneuritis), central nervous system depression and cardiac sensitization. Chronic exposure to benzene has produced anorexia and irreversible injury to the blood forming organs. Effects include aplastic anemia and leukemia. Animal studies have demonstrated testicular effects, alterations in reproductive cycles, chromosomal aberrations, and embryo/fetotoxicity. No birth defects have been shown to occur in pregnant laboratory animals exposed to

Skin Effects:

Ingestion Effects:

doses not toxic to the mother. LD50 Dermal Mouse: 48 mg/kg LD50 Oral Rat: 930 mg/kg

LD50 Oral Mouse: 4700 mg/kg LD50 Oral Mammal: 5700 mg/kg LDLo Oral man: 50 mg/kg

Carcinogenicity:

Classified A1 (Confirmed for humans.) by ACGIH, 1 (Proven for humans.) by IARC, 1 (Known to be human carcinogens.) by NTP, + (Proven.) by OSHA, +

(Proven.) by NIOSH [Benzene].

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient name: Naphthalene

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 1.6 ma/l

SpeciesL: Daphnia magna (EC50)

Period: 48 hour/hours Result: 2.194 mg/l

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 2.55 mg/l

Species: Daphnia pulex (LC50)

Period: 96 hour/hours

Result: 1 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 1.6 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 1.8 mg/l

Ingredient name: n-Hexane

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 2.5 mg/l

Ingredient name: Ethylbenzene Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 2.93 mg/l

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 2.97 mg/l

Species: Selenastrum capricornutum (EC50)

Period: 48 hour/hours Result: 7.2 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 4.2 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 9.09 mg/l

Species: Poecilia reticulata (LC50)

Period: 96 hour/hours Result: 9.6 mg/l

Ingredient name: Cyclohexane Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 4.53 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 32.71 mg/l

Species: Lepomis macrochirus (LC50)

Period: 96 hour/hours Result: 34.72 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 42.33 mg/l

Species: Poecilia reticulata (LC50)

Period: 96 hour/hours Result: 57.68 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 93 mg/l MSDS Vault.com

Ingredient name: Hydrogen Sulfide Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 0.007 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 0.007 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 0.0071 mg/l

Species: Lepomis macrochirus (LC50)

Period: 96 hour/hours Result: 0.009 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 0.0107 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 0.012 mg/l

Ingredient name: Toluene Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 6 mg/l

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 6.56 mg/l

Species: Oncorhynchus mykiss (EC50)

Period: 48 hour/hours Result: 6.78 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 5.8 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 6.78 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 12.6 mg/l

Ingredient name: Xylene (o,m,p isomers) Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 3.3 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 8.2 mg/l

Species: Lepomis macrochirus (LC50)

Period: 96 hour/hours Result: 8.6 mg/l

Species: Lepomis macrochirus (LC50)

Period: 96 hour/hours Result: 12 mg/l

Species: Lepomis macrochirus (LC50)

Period: 96 hour/hours Result: 13.3 mg/l

Species: Pimephales promelas (LC50)

Period: 96 hour/hours Result: 13.4 mg/l

Ingredient name: Benzene Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 9.23 mg/l

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 10 mg/l

Species: Daphnia magna (EC50)

Period: 48 hour/hours Result: 11.73 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 5.3 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 5.9 mg/l

Species: Oncorhynchus mykiss (LC50)

Period: 96 hour/hours Result: 9.2 ma/l

Products of degradation:

These products are carbon oxides (CO, CO2) and water.

Toxicity of the products of biodegradation:

The products of degradation are less toxic than the product itself.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

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SECTION 14: TRANSPORT INFORMATION

DOT Shipping Information:

Additional information: Not available.

DOT Shipping Name:

PETROLEUM DISTILLATES, N.O.S.

DOT UN Number:

UN1268

DOT Hazard Class:

3

DOT Packing Group:

III

DOT Subpart E Labeling Requirement:

Flammable liquid.

Canadian TDG:

Packing group: III

Canadian Shipping Name:

PETROLEUM DISTILLATES, N.O.S.

Canadian Hazard Class:

Canadian UN Number:

UN1268

TDG Classification:

Additional information: Not available.

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SECTION 15: REGULATORY INFORMATION

Applies to All Ingredients:

Section 302: SARA 302 extremely hazardous substances: No products were found.

SARA 302 emergency planning and notification: No products were found.

Section 304: SARA 304 extremely hazardous substances: No products were found.

SARA 304 emergency planning and notification: No products were found.

Section 312 Hazard Category: SARA 311/3

SARA 311/312 extremely hazardous substances: No products were found.

Section 313 Toxic Release Form: SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the

notice attached to copies of the MSDS subsequently redistributed.

Section 112(r): Clean Air Act

OSHA 29 CFR 1200:

(CAA) 112 regulated flammable substances: No products were found.

THIS MATERIAL SAFETY DATA SHEET ("MSDS") WAS PREPARED IN
ACCORDANCE WITH 29 CFR 1910.1200 BY VALERO MARKETING & SUPPLY

COMPANY, ("VALERO").

Canada WHMIS: Class B-3: Combustible liquid with a flash point between 37.8 deg C (100 deg F)

and 93.3 deg C (200 deg F).

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive liquid.

<u>Distillates, petroleum residues vacuum</u>:

TSCA 8(b): Inventory Status

(Yes/No):

Yes

State: Illinois chemical safety act: Distillates, petroleum residues vacuum

Rhode Island RTK hazardous substances: Distillates, petroleum residues vacuum

Pennsylvania RTK: Distillates, petroleum residues vacuum

Florida: Distillates, petroleum residues vacuum Minnesota: Distillates, petroleum residues vacuum New Jersey: Distillates, petroleum residues vacuum

Louisiana RTK reporting list: Distillates, petroleum residues vacuum

Canada DSL: CEPA DSL: Distillates, petroleum residues vacuum

Hexane (Other Isomers):

TSCA 8(b): Inventory Status: TSCA 8(b) inventory: Hexane (Other Isomers)

TSCA 4(a) final test rules: Hexane (Other Isomers)

Section 302: SARA 302 hazardous chemicals: Hexane (Other Isomers)

Section 304: SARA 304 hazardous chemicals: Hexane (Other Isomers)

Section 312 Hazard Category: SARA 311/312 hazardous chemicals: Hexane (Other Isomers)

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Hexane (Other Isomers):

Acute: Yes

State: Pennsylvania RTK: Hexane (Other Isomers)

Massachusetts RTK: Hexane (Other Isomers)

Canada DSL: CEPA DSL: Hexane (Other Isomers)

Naphthalene:

TSCA 8(b): Inventory Status: TSCA 8(a) PAIR: Naphthalene

TSCA 8(b) inventory: Naphthalene

Section 302: SARA 302 hazardous chemicals: Naphthalene
Section 304: SARA 304 hazardous chemicals: Naphthalene

Section 312 Hazard Category: SARA 311/312 hazardous chemicals: Naphthalene

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Naphthalene

Acute: Yes
Chronic: Yes
Fire: Yes

Section 313 Toxic Release Form: Form R - Reporting requirements:

Product name: Naphthalene CAS number: 91-20-3 Concentration: 0 - 3%

Supplier notification: Product name: Naphthalene CAS number: 91-20-3 Concentration: 0 - 3% (CWA) 307: Naphthalene

Section 116.4 part 117: Clean

Water Act

(CWA) 307: Naphthalene

State:

Connecticut hazardous material survey.: Naphthalene

Illinois toxic substances disclosure to employee act: Naphthalene

Rhode Island RTK hazardous substances: Naphthalene

Pennsylvania RTK: Naphthalene: (environmental hazard, generic environmental

hazard)

Florida: Naphthalene

Massachusetts RTK: Naphthalene

New Jersey: Naphthalene

WARNING: This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.:

Naphthalene

WARNING: This product contains chemical/chemicals known to the state of

California to cause cancer.: Naphthalene

Canada DSL:

CEPA DSL: Naphthalene

n-Nonane:

TSCA 8(b): Inventory Status:

TSCA 8(b) inventory: n-Nonane TSCA 8(a) PAIR: n-Nonane

Section 302: Section 304: SARA 302 hazardous chemicals: n-Nonane SARA 304 hazardous chemicals: n-Nonane

Section 312 Hazard Category:

SARA 311/312 hazardous chemicals: n-Nonane

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: n-

Nonane

Acute:

Yes Yes

Fire:

Pennsylvania RTK: n-Nonane: (generic environmental hazard)

Massachusetts RTK: n-Nonane

New Jersey: n-Nonane CEPA DSL: n-Nonane

Canada DSL:

n-Heptane:

TSCA 8(b) inventory: n-Heptane

TSCA 8(a) PAIR: n-Heptane

Section 302:

SARA 302 hazardous chemicals: n-Heptane SARA 304 hazardous chemicals: n-Heptane

Section 304:

SARA 311/312 hazardous chemicals: n-Heptane

Section 312 Hazard Category:

TSCA 8(b): Inventory Status:

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: n-

Heptane

Fire:

Yes

State:

Pennsylvania RTK: n-Heptane: (generic environmental hazard)

Massachusetts RTK: n-Heptane New Jersey: n-Heptane

new Jersey. II-Heptane

Canada DSL:

CEPA DSL: n-Heptane

n-Hexane:

TSCA 8(b): Inventory Status:

TSCA 8(b) inventory: n-Hexane TSCA 4(a) final test rules: n-Hexane

Section 302:

SARA 302 hazardous chemicals: n-Hexane SARA 304 hazardous chemicals: n-Hexane

Section 304: Section 312 Hazard Category:

SARA 311/312 hazardous chemicals: n-Hexane

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: n-

Hexane:

Acute:

Yes

Chronic:

Yes Yes

Fire: Section 313 Toxic Release Form:

Form R - Reporting requirements:

Product name: n-Hexane

CAS number: 110-54-3 Concentration: 0 - 2%

Supplier notification: Product name: n-Hexane CAS number: 110-54-3 Concentration: 0 - 2%

State:

Connecticut hazardous material survey.: n-Hexane

Illinois toxic substances disclosure to employee act: n-Hexane

Rhode Island RTK hazardous substances: n-Hexane

Pennsylvania RTK: n-Hexane: (generic environmental hazard)

Florida: n-Hexane

Massachusetts RTK: n-Hexane New Jersey: n-Hexane

Canada DSL:

CEPA DSL: n-Hexane

Octane (All Isomers):

TSCA 8(b): Inventory Status

Yes

(Yes/No): State:

Pennsylvania RTK: Octane (All Isomers): (generic environmental hazard)

Massachusetts RTK: Octane (All Isomers)

New Jersey: Octane (All Isomers)

Canada DSL:

CEPA DSL: Octane (All Isomers)

Cyclohexane:

TSCA 8(b): Inventory Status

(Yes/No):

Section 116.4 part 117: Clean

(CWA) 311: Cyclohexane

Water Act State:

Pennsylvania RTK: Cyclohexane: (environmental hazard, generic environmental

hazard)

Massachusetts RTK: Cyclohexane New Jersey: Cyclohexane

Canada DSL:

CEPA DSL: Cyclohexane

Ethylbenzene:

TSCA 8(b): Inventory Status

Yes

(Yes/No):

Section 313 Toxic Release Form:

Form R - Reporting requirements: Product name: Ethylbenzene CAS number: 100-41-4 Concentration: 0 - 1

Supplier notification: Product name: Ethylbenzene CAS number: 100-41-4 Concentration: 0 - 1 (CWA) 307: Ethylbenzene

Section 116.4 part 117: Clean

Water Act State:

(CWA) 311: Ethylbenzene

Connecticut hazardous material survey.: Ethylbenzene

Illinois toxic substances disclosure to employee act: Ethylbenzene

Rhode Island RTK hazardous substances: Ethylbenzene

Pennsylvania RTK: Ethylbenzene: (environmental hazard, generic environmenta

hazard)

Florida: Ethylbenzene

Massachusetts RTK: Ethylbenzene New Jersey: Ethylbenzene CEPA DSL: Ethylbenzene

Canada DSL:

Hydrogen Sulfide:

TSCA 8(b): Inventory Status

Yes

(Yes/No):

Section 112(r): Clean Air Act

(CAA) 112 accidental release prevention: Hydrogen Sulfide (CAA) 112 regulated toxic substances: Hydrogen Sulfide

State:

Pennsylvania RTK: Hydrogen Sulfide: (environmental hazard, generic

environmental hazard)

Massachusetts RTK: Hydrogen Sulfide New Jersey: Hydrogen Sulfide

Canada DSL:

CEPA DSL: Hydrogen Sulfide

Toluene:

TSCA 8(b): Inventory Status

(Yes/No):

Yes

Section 116.4 part 117: Clean

Water Act

(CWA) 307: Toluene (CWA) 311: Toluene

State: Connecticut hazardous material survey.: Toluene

Illinois toxic substances disclosure to employee act: Toluene

Rhode Island RTK hazardous substances: Toluene

Pennsylvania RTK: Toluene: (environmental hazard, generic environmental

hazard)

Florida: Toluene

CEPA DSL: Toluene

Michigan critical material: Toluene Massachusetts RTK: Toluene New Jersey: Toluene

WARNING: This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Toluene

California prop. 65 (Maximum Acceptable Dosage Level): Toluene

WARNING: This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Toluene

Canada DSL:

Xylene (o,m,p isomers) :

TSCA 8(b): Inventory Status

(Yes/No):

Yes

Section 116.4 part 117: Clean

Water Act

State:

(CWA) 311: Xylene (o,m,p isomers)

Connecticut hazardous material survey.: Xylene (o,m,p isomers)
Illinois toxic substances disclosure to employee act: Xylene (o,m,p isomers)

Rhode Island RTK hazardous substances: Xylene (o,m,p isomers)
Pennsylvania RTK: Xylene (o,m,p isomers): (environmental hazard, generic

environmental hazard)

Florida: Xylene (o,m,p isomers)

Michigan critical material: Xylene (o,m,p isomers) Massachusetts RTK: Xylene (o,m,p isomers) New Jersey: Xylene (o,m,p isomers)

Canada DSL:

Yes

Benzene:

TSCA 8(b): Inventory Status

(Yes/No):

Section 313 Toxic Release Form:

Form R - Reporting requirements:

CEPA DSL: Xylene (o,m,p isomers)

Product name: Benzene CAS number: 71-43-2 Concentration: 0 - 0.5

Supplier notification: Product name: Benzene CAS number: 71-43-2 Concentration: 0 - 0.5 (CWA) 307: Benzene

Section 116.4 part 117: Clean

Water Act

(CWA) 307: Benzene (CWA) 311: Benzene

State:

Connecticut carcinogen reporting list.: Benzene
Connecticut hazardous material survey.: Benzene
Illingis toxic substances disclosure to employee act: Ber

Illinois toxic substances disclosure to employee act: Benzene

Rhode Island RTK hazardous substances: Benzene

Pennsylvania RTK: Benzene: (special hazard, environmental hazard, generic

environmental hazard) Florida: Benzene

Michigan critical material: Benzene Massachusetts RTK: Benzene New Jersey: Benzene

WARNING: This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Benzene

WARNING: This product contains chemical/chemicals known to the state of

California to cause reproductive harm (male).: Benzene California prop. 65 (no significant risk level): Benzene

California prop. 65 (Maximum Acceptable Dosage Level): Benzene

WARNING: This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene WARNING: This product contains chemical/chemicals known to the state of

California to cause cancer.: Benzene

Canada DSL:

CEPA DSL: Benzene

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SECTION 16: ADDITIONAL INFORMATION

HMIS:

NFPA:

Health Hazard:

Fire Hazard:

2 3 n

Reactivity:

Health:

Fire Hazard:

2 3 Ω

Reactivity: Label Text:

Label requirements:

MAY BE FATAL IF INHALED.

CANCER HAZARD.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER, PERIPHERAL NERVOUS SYSTEM, RESPIRATORY

TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

MSDS Revision Date:

3/13/2006

Version: 1.01

Disclaimer:

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Definitions of Material Safety Data Sheet Terminology:

GOVERNMENT AGENCIES AND PRIVATE ASSOCIATIONS:

ACGIH - American Conference of Governmental Industrial Hygienists, (private association)

DOT - United States Department of Transportation

EPA - United States Environmental Protection Agency

IARC - International Agency for Research on Cancer, (private association)

NFPA - National Fire Protection Association, (private association)

MSHA - Mine Safety and Health Administration, U.S. Department of Labor NIOSH - National Institute of Occupational Safety and Health, U.S. Department of Health and Human Services

NTP - National Toxicology Program, (private association)

OSHA - Occupational Safety and Health Administration, U.S. Department of

Labor

WHMIS - Workplace Hazardous Material Information System

CSA - Canadian Standards Association

HAZARD AND EXPOSURE INFORMATION:

Acute Hazard - An adverse health effect which occurs rapidly as a result of short term exposure.

CAS ## - American Chemical Society's Chemical Abstract service registry number which identifies the product and/or ingredients.

Ceiling - The concentration that should not be exceeded during any part of the

working exposure

Chronic Hazard - An adverse health effect which generally occurs as a result of long term exposure or short term exposure with delayed health effects and is of long duration

Fire Hazard - A material that poses a physical hazard by being flammable, combustible, phyrophoric or an oxidizer as defined by 29 CFR 1910.1200 Hazard Class - DOT hazard classification

Hazardous Ingredients - Names of ingredients which have been identified as health hazards

IDLH - Immediately Dangerous to Life and Health, the airborne concentration below which a person can escape without respiratory protection and exposure up to 30 minutes, and not suffer debilitating or irreversible health effects. Established by NIOSH.

mg/m3 - Milligrams of contaminant per cubic meter of air, a mass to volume ratio

N/A - Not available or no relevant information found

NA - Not applicable

PEL - OSHA permissible exposure limit; an action level of one half this value mabe applicable

ppm - Part per million (one volume of vapor or gas in one million volumes of air Pressure Hazard - A material that poses a physical hazard due to the potential o a sudden release of pressure such as explosive or a compressed gas as defined by 29 CFR 1910.1200

Reactive Hazard - A material that poses a physical hazard due to the potential tc become unstable reactive, water reactive or that is an organic peroxide as defined by 29 CFR 1910.1200.

STEL - The ACGIH Short-Term Exposure Limit, a 15-minute Time-Weighted Average exposure which should not be exceeded at any time during a workday, even if the 8-hour TWA is less than the TLV.

TLV - ACGIH Threshold Limit Value, represented herein as an 8-hour TWA concentration.

8-hour TWA - The time weighted average concentration for a normal 8-hour workday and a 40-hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.

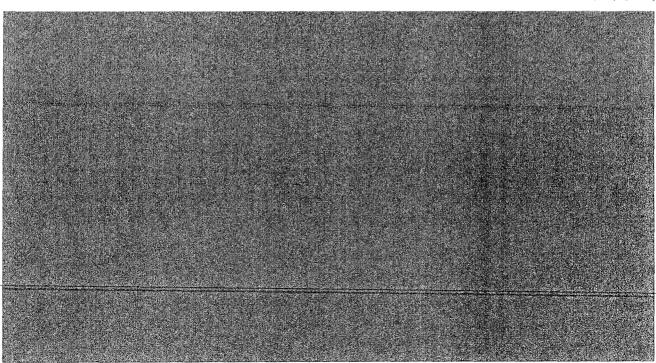
LD50 - Single dose of a substance that, when administered by a defined route ir an animal assay, is expected to the cause the death of 50% of the defined animal population.

LC50 - The concentration of a substance in air that, when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50% of a defined animal population.

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